

# Company Mission [Phoenix Chemical Inc.]

## This Catalog Contains:

- product sections divided by chemical classifications
- product section, alphabetized by Trade Name with corresponding INCI or chemical name
- an alphabetized listing of products by trade name
- an alphabetized listing of products by INCI or chemical name

**P**hoenix Chemical, Inc. was founded in 1982 with a corporate charter to develop proprietary and unique chemical technology and products for the cosmetic and OTC pharmaceutical industries. We are a high technology, customer-oriented company dedicated to product and market development.

Phoenix Chemical, Inc. has grown into a multi-national organization with agents throughout the world, allowing the company to service customers worldwide.

Contained in this catalog is an array of products that we supply, however, our line is constantly expanding. We are engaged in a continuing effort to develop new technology and products in response to industry trends and to particular customer requirements. Custom synthesis is a cornerstone of our business.



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# Esters [Pelemol®]

## Solubility in Commonly Used Solvents / Ingredients

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	REACH
PELEMOL 89	Ethylhexyl Isononanoate	71566-49-9	Very dry emollient. Useful in skin preparations where dryness on rub-in is desirable.	Liquid	100	1.4345	i	m	i	m	m	m	m	m	m	m	m	Compliant
PELEMOL 108	Isodecyl Ethylhexanoate	89933-26-6	Emollient.	Liquid	100	1.4410	i	i	i	m	m	m	m	m	i	m	m	Compliant
PELEMOL 168	Cetyl Ethylhexanoate	59130-69-7	Emollient.	Liquid	100	1.4430	i	i	i	m	m	m	m	m	m	m	m	Compliant
PELEMOL 187	Stearyl Heptanoate	66009-41-4	Low melting ester. Provides an emollient cooling effect on skin.	Solid	100	N/A	i	i	i	m(w)	m(w)	m(w)	m(w)	m(w)	i	m(w)	m(w)	Compliant
PELEMOL 256	C12-15 Alkyl Benzoate	68411-27-8	Good wetting agent & solvent. Useful in pigment sunscreen preparations.	Liquid	100	1.4836	i	m	i	m	m	m	m	m	i	m	m	Compliant
PELEMOL 899	Isononyl Isononanoate & Ethylhexyl Isononanoate	59219-71-5, 71566-49-9	Hydrophobic, low viscosity ester. Provides a dry feel & light cushion. Useful to enhance aesthetic properties of skin products; aids in reducing tackiness in stick products; & improves spreadability in makeup.	Liquid	100	1.4350	i	m	i	m	m	m	m	m	m	m	m	Compliant
PELEMOL 1215L	C12-15 Alkyl Lactate	93925-36-1	Light, emollient, alpha-hydroxyacid ester.	Liquid	100	1.4435	i	i	i	m	m	m	m	m	i	m	m	Compliant
PELEMOL 2014	Octyldodecyl Myristate	22766-83-2	Emollient.	Liquid	100	1.4515	i	i	i	m	m	m	m	m	i	m	m	Compliant
PELEMOL 2022	Octyldodecyl Behenate	125804-08-2	Emollient.	Liquid	100	1.4550	i	i	i	m	m	s	m	m	i	m	m	Compliant
PELEMOL 3G22	Polyglyceryl-3 Behenate	1207543-50-7	Completely vegetable derived, hydrophilic & self-emulsifying. Imparts friction to creams & lotions. Useful for improving rinse off characteristics in cleansers. Tends to produce w/o emulsions.	Solid	100	N/A	s(w)	d(w)	d(w)	d(w)	s(w)	d(w)	d(w)	d(w)	i	d(w), s(h)	d(w), s(h)	Compliant
PELEMOL 6GPR	Polyglyceryl-6 Polyricinoleate	114355-43-0	Completely vegetable derived substantive lubricious, glossy ester. Well suited as a pigment wetting agent & grinding aid for lipsticks, skin care & makeup.	Liquid	100	1.4790	i	i	d	m	m	i	i	i	i	m	m	Compliant

# Esters [Pelemol®]

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							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PELEMOL BB</b>	Behenyl Behenate	17671-27-1	White flake, oil-soluble, vegetable-derived ester. Useful in the oil phase of creams & lotions to impart stability, build viscosity, impart richness & add emolliency. Also useful in stick antiperspirants & lipsticks.	Solid	100	N/A	i	i	i	m(w)	s(w)	s(w)	s(h)	d(w)	i	m(h)	m(h)	Compliant
<b>PELEMOL BIP-PC</b>	Butylphthalimide & Isopropylphthalimide	304-17-6, 1515-72-6	Excellent solvent for Avobenzone & Oxybenzone. Also functions as plasticizer for nail lacquers.	Liquid	100	1.5435	i	m	i	m	m	m	s	i	i	m	m	Compliant
<b>PELEMOL C-150</b>	Bis(Trioctyldodecyl Citryl) Dilinoleate	220716-32-5	High molecular weight (166 carbon atoms) ester. Excellent cold-flow properties. Useful in lipstick & makeup products.	Liquid	100	1.4640	i	i	i	m	s	s	m	d	i	m	m	Compliant
<b>PELEMOL C25EH</b>	C12-15 Alkyl Ethylhexanoate	90411-66-8	Emollient for skin creams & lotions. Has very light, dry feel on skin. Useful in fragrance sprays, skin conditioners and after shave preparations.	Liquid	100	1.4420	i	m	i	m	m	m	m	m	m	m	m	Compliant
<b>PELEMOL CA</b>	Cetyl Acetate	629-70-9	Very light ester. Useful in skin preparations. Combinations of Pelemol CA & ICB are useful replacements for Acetulan.	Solid	100	1.4400	i	i	i	m	m	m	m(w)	m	m(w)	m(w)	m(w)	Compliant
<b>PELEMOL CCT</b>	Caprylic/Capric Triglyceride	73398-61-5	Emollient.	Liquid	100	1.4475	i	i	i	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL CL</b>	Cetyl Lactate	35274-05-6	Emollient, alpha-hydroxyacid ester.	Liquid	100	1.4460	i	i	i	m(w)	m(w)	m(w)	m(w)	m(w)	i	m(w)	m(w)	Compliant
<b>PELEMOL CP</b>	Cetyl Palmitate	540-10-3	Emollient.	Flake	100	N/A	i	i	i	m(h)	m(h)	m(h)	m(h)	m(h)	i	m(w)	m(w)	Compliant
<b>PELEMOL CR</b>	Cetyl Ricinoleate	10401-55-5	Emollient. Useful in lipsticks.	Solid	100	N/A	i	m(w)	i	m(w)	m(w)	m(w)	m(w)	m(w)	i	m(w)	m(w)	Compliant
<b>PELEMOL D-2000</b>	PPG-26 Dimer Dilinoleate Copolymer	864977-94-9	Extremely substantive to skin. Useful in very transfer resistant systems in lipstick, makeup & sunscreen products.	Liquid	100	1.4570	i	i	i	m	m	m	m	m	i	m	m	Compliant

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<b>PELEMOL D3GP</b>	Dimer Dilinoleyl Dimer Dilinoleate & Propanediol Dicaprylate/caprate& Polyglyceryl-3 Behenate	378789-58-3, 118558-49-8, 1207543-50-7	A 100 % vegetable derived functional equivalent to animal based cholesteryl/ lanosteryl esters used in lipstick.	Paste	100	N/A	i	i	i	s(w)	s(w)	s(w)	s(w)	i	i	s(h)	s(h)	Compliant
<b>PELEMOL D5R-1</b>	Ethylhexyl Isononanoate & Cetyl Dimethicone	71566-49-9, 191044-49-2	Mimics the sensory properties of Cyclomethicone D5. Suitable replacement for Cyclomethicone D5 as with similar solubility characteristics.	Liquid	100	1.4350	i	i	i	m	d	m	m	m	d	m	m	Compliant
<b>PELEMOL D5R-V</b>	Propanediol Dicaprylate/ caprate & Diisostearyl Malate	1118558-49-8, 67763-18-2	A 100% vegetable derived replacement for Cyclomethicone D5. It has the identical flow, spreadability, initial feel, softness and cushion on rub-in. Its refractive index (1.4435) is higher creating a more glossy appearance on skin.	Liquid	100	1.4435	i	m	i	m	m	m	m	m	s	m	m	Compliant
<b>PELEMOL D-899</b>	PPG-26 Dimer Dilinoleate Copolymer & Isononyl Isononanoate & Ethylhexyl Isononanoate	864977-94-9, 59219-71-5, 71566-49-9	A water white mixed ester very substantive to skin, without tack; extremely glossy & exhibits outstanding cushion. Useful in modifying oil phases to impart good texture to creams and lotions. Also useful in lipstick, lip balm and make-up products.	Liquid	100	1.4450	i	m	d	m	m	m	m	d	d	m	m	Compliant
<b>PELEMOL D9336</b>	Diisopropyl Dimer Dilinoleate	103213-20-3	Emollient ester for skin & make-up products.	Liquid	100	1.4650	i	d	i	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL DD</b>	Dimer Dilinoleyl Dimer Dilinoleate	378789-58-3	A substantive vegetable derived polyester that is tasteless, odorless, & glossy. Excellent for lipstick, hair conditioners, mascara & lip balms.	Liquid	100	1.4840	i	i	d	m	m	m	m	d	m	m	m	Compliant
<b>PELEMOL DIA</b>	Diisopropyl Adipate	6938-94-9	Emollient.	Liquid	100	1.4230	i	m	i	m	m	m	m	m	s	m	m	Not Compliant
<b>PELEMOL DIPS</b>	Diisopropyl Sebacate	7491-02-3	Useful in preventing whitening in stick antiperspirants.	Liquid	100	1.4310	m	m	m	m	m	m	m	m	s	m	m	Compliant

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<b>PELEMOL DISA</b>	Diisostearyl Adipate	62479-36-1	Oil Soluble light-emollient useful in lipstick and makeup products.		100	1.4610	i	i	i	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL DISD</b>	Diisostearyl Dimer Dilinoleate	161025-24-7	A 100% vegetable derived emollient ester with highly branched configuration. Exhibits considerable "playtime". Useful in color cosmetics such as lipstick, make-up, foundation, mascara and eye products.	Liquid	100	1.4700	i	m	d	m	m	m	m	s	i	m	m	Compliant
<b>PELEMOL DISM</b>	Diisostearyl Malate	67763-18-2	Light silky emolliency substantive to skin. Virtually odorless. Good cushion.	Liquid	100	1.4585	i	m	i	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL DISM-V</b>	Diisostearyl Malate	67763-18-2	A 100% vegetable derived ester emollient. Exhibits excellent skin feel characterized by cushion and emolliency leaving the skin soft & supple. Suitable for lipstick/lip products & make-up/skin formulations.	Liquid	100	1.4630	i	m	i	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL DO</b>	Decyl Oleate	3687-46-5	Emollient.	Liquid		1.4545	i	m	i	m	m	m	i	m	i	m	m	Compliant
<b>PELEMOL DOA</b>	Diethylhexyl Adipate	103-23-1	Emollient.	Liquid	100	1.4455	i	i	i	m	m	m	i	m	i	i	m	Not Compliant
<b>PELEMOL DOM</b>	Diethylhexyl Maleate	142-16-5	Emollient.	Liquid	100	1.4525	i	i	i	m	m	m	m	m	s	m	m	Not Compliant
<b>PELEMOL DP-72</b>	Dipentaerythrityl Tetrahydroxystearate/ Isostearate	220716-33-6	Hydrophobic & extremely substantive. Produces glossy, lustrous films. Ideal for lipsticks & lip care products. Excellent lanolin substitute.	Paste	100	N/A	i	d(w)	i	d(w)	d(w)	d(w)	i	i	i	i	i	Compliant
<b>PELEMOL DP-144B</b>	Dipentaerythrityl Tetrabenenate/ Polyhydroxystearate	748142-30-5	Lipstick base. Moisturizer.	Paste	100	N/A	se	d	d	s	s	s	m(w)	d	i	m(w)	m(w)	Compliant
<b>PELEMOL EE</b>	Octyldodecyl Erucate	132208-25-4	All vegetable derived, dry ester. Very emollient. Can be used in skin creams, lotions & makeup products.	Liquid	100	1.4650	i	i	i	m	m	m	m	m	i	m	m	Compliant

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							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PELEMOL G7A</b>	Glycereth-7 Triacetate	57569-76-3	Water-soluble emollient. Good solvent for esters. Dissolves sunscreens such as benzophenone-3, octyl dimethyl PABA, & octyl methoxycinnamate. Useful in facial cleansers, creams & lotions. Detackifies carbomer gels. Functions as a cosolvent or coupler.	Liquid	100	1.4545	m	m	m	i	s	i	i	i	i	i	i	Compliant
<b>PELEMOL G7B</b>	Glycereth-7 Benzoate	139247-28-2	Blooms heavily in water. Useful in bath products, creams, lotions, & tropical pharmaceutical products. Detactifier for antiperspirants. Soluble in anionic detergents adding emolliency.	Liquid	100	1.4825	d	m	m	i	d	i	i	i	i	i	i	Compliant
<b>PELEMOL G45L</b>	Glycereth-5 Lactate	158483-23-9	Emollient. Coupler for hydro-alcoholic fragrance systems allowing inclusion of water while maintaining clarity. Useful in skin products where slow release of lactic acid is desirable.	Liquid	100	1.4700	m	m	m	i	d	i	i	i	i	i	i	Compliant
<b>PELEMOL GMB</b>	Glyceryl Behenate	30233-64-8	Emulsifier for creams & lotions. Imparts richness & builds viscosity.	Flake	100	N/A	i	i	i	d(w)	m(w)	m(w)	m(w)	m(w)	i	m(w)	m(w)	Compliant
<b>PELEMOL GMR</b>	Glyceryl Ricinoleate	141-08-2	An emollient, skin conditioner. Also functions as an emulsifying agent.	Liquid	100	1.4760	i	i	i	d	m	m	i	m	i	m	m	Compliant
<b>PELEMOL GTB</b>	Tribehenin	18641-57-1	Vegetable derived ester. Useful in oil phase of creams & lotions to impart body, richness, & emolliency. Useful in makeup products.	Granule	100	N/A	i	i	i	m(h)	s(h)	s(h)	m(h)	m(h)	i	m(h)	m(h)	Compliant
<b>PELEMOL GTHS</b>	Trihydroxystearin	139-44-6	Can be described as hydrogenated castor oil with no odor or taste. Useful in lipstick products.	Paste	100	N/A	i	m(w)	m(w)	m(w)	m(w)	m(w)	s(h)	i	i	s(h)	s(h)	Compliant
<b>PELEMOL GTIS</b>	Triisostearin	26942-95-0	Lubricious emollient ester. Good cushion & substantive to skin. Useful in lipstick & lip gloss products.	Liquid	100	1.4636	i	i	i	m	m	m	m	m	i	m	m	Compliant

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<b>PELEMOL GTO</b>	Triethylhexanoin	7360-38-5	Emollient.	Liquid	100	1.4465	i	i	d	m	m	m	m	m	s	m	m	Compliant
<b>PELEMOL HAB</b>	Dihydroabietyl Behenate	127036-29-7	Very hydrophobic, viscous, completely vegetable derived ester. Useful in lipstick products, night creams, & for hydrophobic makeup products where substantivity is desired.	Solid	100	N/A	i	i	i	m	d	d	m(w)	d	i	m(w)	m(w)	Not Compliant
<b>PELEMOL HCO</b>	Hydrogenated Castor Oil	8001-78-3	Hardened Castor Oil; odorless and tasteless. Useful in lipstick products. Also useful for various applications as thickeners, pacifiers, structurants in stick products.	Solid	100	N/A	i	m(w)	m(w)	m(w)	m(w)	m(w)	s(h)	i	i	s(h)	s(h)	Not Compliant
<b>PELEMOL I-1816</b>	Isostearyl Palmitate	72576-80-8	Emollient.	Liquid	100	1.4525	i	i	i	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL ICB</b>	Isocetyl Behenate	94247-28-6	Medium to dry, very emollient ester. Useful in skin, lipstick & makeup preparations where substantivity is desired. Odorless & tasteless.	Liquid	100	1.4525	i	i	i	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL ICIS</b>	Isocetyl Isostearate	52006-45-8	Emollient.	Liquid	100	N/A	i	i	i	m	m	m	m	m	i	m	m	Not Compliant
<b>PELEMOL ICO</b>	Isocetyl Ethylhexanoate	125804-19-5	Emollient.	Liquid	100	N/A	i	i	i	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL ICS</b>	Isocetyl Stearate	25339-09-7	Emollient.	Liquid	100	1.4515	i	i	i	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL IDO</b>	Isodecyl Oleate	59231-34-4	Medium viscosity ester. Useful in imparting sheen to hair & in oil phase of creams/lotions.	Liquid	100	1.4545	i	m	i	m	m	m	i	m	i	m	m	Not Compliant
<b>PELEMOL II</b>	Isostearyl Isostearate	41669-30-1	Very light emollient for skin products.	Liquid	100	1.4620	i	i	i	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL IN-2</b>	Isononyl Isononanoate	59219-71-5	Dry emollient.	Liquid	100	1.4355	i	m	i	m	m	m	m	m	m	m	m	Compliant
<b>PELEMOL IPM</b>	Isopropyl Myristate	110-27-0	Emollient.	Liquid	100	1.4355	i	m	i	m	m	m	i	m	m	m	m	Not Compliant

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<b>PELEMOL ISB</b>	Isostearyl Behenate	125804-16-2	Extremely emollient, all vegetable derived ester. Melts at skin temperature. Useful in makeup products, mascara, lipstick, creams & lotions. Silicone compatible.	Paste	100	N/A	i	i	i	m(w)	s(w)	s(w)	m(w)	s(w)	i	m(w)	m(w)	Compliant
<b>PELEMOL ISHS</b>	Isostearyl Hydroxystrearate	162888-05-3	Mildly occlusive emollient. Melts at body temperature. Good gloss. Useful in lipstick.	Paste	100	N/A	i	m(w)	i	m(w)	m(w)	m(w)	m(w)	m(w)	i	m(w)	m(w)	Compliant
<b>PELEMOL ISL</b>	Isostearyl Lactate	42131-28-2	Emollient alpha-hydroxyacid ester. Useful as a sesame oil replacement.	Liquid	100	1.4485	i	i	d	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL ISNP</b>	Isostearyl Neopentanoate	58958-60-4	Dry to semi-dry ester. Imparts a pleasantly silky feel to skin. Good rub in characteristic.	Liquid	100	1.4405	i	m	i	m	m	m	m	m	m	m	m	Compliant
<b>PELEMOL JEC</b>	Triisostearin/Glyceryl Behenate	26942-95-0, 30233-64-8	Global ester. Lubricious soft paste which melts at skin temperature. Has similar sensory properties to Isostearyl Behenate.	Soft Solid	100	N/A	i	i	i	s(w)	m(w)	m(w)	m(w)	m(w)	i	m(w)	m(w)	Compliant
<b>PELEMOL LL</b>	Lauryl Lactate	6283-92-7	Emollient alpha-hydroxyacid ester.	Liquid	100	1.4410	i	i	i	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL MAR</b>	Methyl Acetyl Ricinoleate	140-03-4	Low viscosity oil. Useful as light-feel moisture barrier. Cosolubilizes mineral oil & castor oil.	Liquid	100	1.4575	i	m	i	m	m	m	m	m	i	m	m	Not Compliant
<b>PELEMOL ML</b>	Myristyl Lactate	1323-03-1	Emollient alpha-hydroxyacid ester.	Semi-Solid	100	1.4450	i	i	i	m	m	m	m	m	i	m	m	Not Compliant
<b>PELEMOL MM</b>	Myristyl Myristate	3234-85-3	Emollient. Useful in creams & lotions.	Solid	100	N/A	i	i	i	m(w)	m(w)	m(w)	m(w)	m(w)	i	m(w)	m(w)	Not Compliant
<b>PELEMOL MS</b>	Myristyl Stearate	17661-50-6	Emollient. Useful in creams & lotions.	Solid	100	N/A	i	i	i	m(h)	m(h)	m(h)	m(w)	m(h)	i	m(w)	m(w)	Not Compliant
<b>PELEMOL NPGDD</b>	Neopentylglycol Dicaprate/Dicaprylate	70693-32-2	Light emollient vegetable based ester. Useful in creams & lotions.	Liquid	100	1.4505	i	m	i	m	m	m	m	m	i	m	m	Compliant

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## Solubility in Commonly Used Solvents / Ingredients

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	REACH
<b>PELEMOL NGDO</b>	Neopentylglycol Diethylhexanoate	28510-23-8	Used as a solvent, solubilizer and plasticizer for nail enamels, freeze point depressants, & make-up removers.	Liquid	100	1.4380	i	m	d	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL ODR</b>	Octyldodecyl Ricinoleate	79490-62-3	Non-oily substantive emollient, rapidly diffuses on the skin leaving it smooth & conditioned. Useful in lipsticks.	Liquid	100	1.4620	i	i	i	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL ODSS</b>	Octyldodecyl Stearoyl Stearate	90052-75-8	Emollient.	Liquid	100	1.4590	i	i	i	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL OE</b>	Oleyl Erucate	17673-56-2	Extremely emollient.	Liquid	100	1.4640	i	i	d	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL OL</b>	Oleyl Lactate	42175-36-0	Emollient alpha-hydroxyacid ester. Leaves skin very soft & supple when rubbed in. Useful in creams & lotions; also in hair conditioning for sheen & manageability.	Liquid	100	1.4565	i	i	d	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL OP</b>	Ethylhexyl Palmitate	29806-73-3	Emollient.	Liquid	100	1.4450	i	i	i	m	m	m	m	m	s	m	m	Compliant
<b>PELEMOL OPG</b>	Ethylhexyl Pelargonate	59587-44-9	Very dry emollient. Uses similar to Pelemol 89.	Liquid	100	1.4345	i	i	i	m	m	m	m	m	s	m	m	Not Compliant
<b>PELEMOL OS</b>	Ethylhexyl Stearate	22047-49-0	Emollient.	Liquid	100	1.4458	i	i	i	m	m	m	m	m	s	m	m	Compliant
<b>PELEMOL P3D</b>	Dilinoleic Acid/Propanediol Copolymer	1110650-80-0	A 100% vegetable derived polyester emollient that is slightly tacky, substantive, glossy and has no taste or odor. Its solubility in castor oil make it an ideal ester for lipsticks, lip balms and other lip products. Its insolubility in water and alcohol contributes to long wear properties in leg make-up and sunscreen products.	Liquid	100	1.4860	i	i	d	m	m	m	m	i	i	m	m	Compliant
<b>PELEMOL P-49</b>	Pentaerythrityl Tetraisononanoate	93803-89-5	Emollient.	Liquid	100	1.4530	i	m	i	m	s	m	m	m	i	m	m	Compliant

# Esters [Pelemol®]

## Solubility in Commonly Used Solvents / Ingredients

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	REACH
<b>PELEMOL P-810</b>	Propanediol Dicaprylate/caprate	1118558-49-8	A 100% vegetable derived extremely dry ester. Virtually odorless and colorless. It is a vegetable derived replacement for many synthetically derived dry esters. Finds applications in creams, lotions, lip products and lipsticks, make-up products, deodorants, shaving preparations, fragrance products and bath and body products.	Liquid	100	1.4425	i	m	i	m	m	m	m	m	s	m	m	Compliant
<b>PELEMOL P-1263</b>	Polyglyceryl-10 Hexaoleate & Polyglyceryl-6 Polyricinoleate	114355-43-0, 65573-03-7	All vegetable sourced/derived versatile polymeric water-in-oil emulsifier for creams and lotions. EO/PO free emulsifier. Can be combined with high HLB emulsifier for oil-in-water emulsions. It is also a replacement for PEG-30 Polyhydroxystearate.	Liquid	100	1.4780	i	i	d	m	m	i	i	i	i	m	m	Compliant
<b>PELEMOL PDD</b>	Propylene Glycol Dicaprylate/ Dicaprate	68583-51-7	Emollient.	Liquid	100	1.4380	i	i	i	m	m	m	m	m	s	m	m	Compliant
<b>PELEMOL PGDP</b>	Propylene Glycol Dipelargonate	41395-83-9	Emollient.	Liquid	100	1.4410	i	i	i	m	m	m	m	m	s	m	m	Compliant
<b>PELEMOL PHS-8</b>	Polyhydroxystearic Acid	27924-99-8	All vegetable derivative liquid polyester. Substantive, glossy & moisturizing on skin. Useful for lipstick & makeup.	Liquid	100	1.4675	i(h)	i(h)	i(h)	m	m	m	m	i	i	m	m	Compliant
<b>PELEMOL PTA</b>	Pentaerythrityl Tetraacetate	597-71-7	Low melting ester useful as plasticizer for nail enamel resins.	Solid	100	N/A	i(h)	i(h)	s(h)	s(h)	s(h)	i(h)	i(h)	i(h)	i(h)	m(h)	m(h)	Compliant
<b>PELEMOL PTIS</b>	Pentaerythrityl Tetraisostearate	62125-22-8	Emollient.	Liquid	100	1.4670	i	i	i	m	m	m	m	m	i	m	m	Compliant
<b>PELEMOL PTL</b>	Pentaerythrityl Tetralaurate	13057-50-6	Emollient useful in lipstick & makeup products.	Soft Solid	100	N/A	i	d	i	d	d	d	d	d	i	m	m	Compliant
<b>PELEMOL PTO</b>	Pentaerythrityl Tetraethylhexanoate	7299-99-2	Emollient.	Liquid	100	1.4500	i	i	i	m	m	m	m	m	i	m	m	Compliant

# Esters [Pelemol®]

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
PELEMOL PTP	Pentaerythrityl Tetrapelargonate	14450-05-6	Emollient.	Liquid	100	1.4530	i	d	i	m	m	m	m	m	i	m	m	Compliant
PELEMOL SPO	Cetearyl Ethylhexanoate	59130-69-7, 59130-70-0	Emollient. Synthetic purcellin oil.	Liquid	100	1.4440	i	i	i	m	m	m	m	m	m	m	m	Compliant
PELEMOL TDE	Tridecyl Erucate	131154-74-0	Emollient with very light oily feel. Similar to Pelemol EE, but not as dry. Replacement for light mineral oil.	Liquid	100	1.4570	i	i	i	m	m	m	m	m	i	m	m	Not Compliant
PELEMOL TDTM	Tridecyl Trimellitate	94109-09-8	Emollient.	Liquid	100	1.4830	i	i	i	m	m	m	m	m	i	m	m	Compliant
PELEMOL TGC	Trioctyldodecyl Citrate	126121-35-5	Viscous emollient. Useful in skin preparations where cushion is desired; & lipsticks. Excellent pigment wetter & dispersant. Silicone compatible.	Liquid	100	1.4605	i	i	i	m	m	m	m	m	i	m	m	Compliant
PELEMOL TISC	Triisostearyl Citrate	113431-54-2	Emollient. Similar to Pelemol TGC with lighter feel.	Liquid	100	1.4605	i	i	i	m	m	m	m	m	i	m	m	Compliant
PELEMOL TMPIS	Trimethylolpropane Triisostearate	68541-50-4	Extremely emollient ester with superior cushion. Excellent lipstick ester. Modifier for plasticity/melt point of high melting esters.	Liquid	100	1.4655	i	i	i	m	m	m	m	m	i	m	m	Compliant
PELEMOL TMPO	Trimethylolpropane Triethylhexanoate	26086-33-9	Emollient.	Liquid	100	1.4470	i	m	i	m	m	m	m	m	i	m	m	Compliant
PELEMOL TOTM	Triethylhexyl Trimellitate	3319-31-1	Lubricious emollient. Helps to soften & condition skin.	Liquid	100	1.4840	i	m	i	m	m	m	m	m	i	m	m	Compliant
PELEMOL TT	Tribehenin & Caprylic/ Capric Triglyceride	18641-57-1, 73398-61-5	All-vegetable based specifically designed to mimic tactile properties of Shea Butter. Melts at skin temperature with smooth butter-like lubriciousness and spreadability.	Solid	100	N/A	i	i	i	i	d	d	d	i	d	i	d	Compliant
PELEMOL VL	Dimer Dilinoleyl Dimer Dilinoleate & Triisostearin	378789-58-3, 26942-95-0	A 100 % vegetable replacement for lanolin oil. Tactile properties, physical properties and solubility characteristics make it suitable to replace lanolin oil.	Liquid	100	1.4725	i	i	i	m	m	m	m	i	d	m	m	Compliant

# Silicones - Organofunctional [Pecosil®]

## Silicone Phosphates

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PECOSIL F-112</b>	Perfluorononylethyl Carboxydecyl Dimethicone PEG-7 Phosphate	None	Water soluble oleophobic fluorosilicone fluid. Exhibits foaming power in water. Is non-tacky & easily spreadable, substantive, occlusive, & leaves the skin with a soft cushion. Useful in skin creams/lotions, shampoos/conditioners, bath products, lipstick & make up products.	Liquid	100	1.4610	m	m	m	i	i	i	i	i	i	i	i	Compliant
<b>PECOSIL PS-100</b>	Dimethicone PEG-7 Phosphate	132207-31-9	Anionic primary o/w emulsifier with acid pH, emollient, counter-irritant for sodium lauryl sulfate & alpha-hydroxy acids, pigment wetter & TiO <sub>2</sub> -dispersant. Provides hair manageability & sheen in shampoos. Increases SPF in sunscreen systems. These properties make it useful in aerosol systems; creams & lotions; sun & hair care products and shaving preparations.	Liquid	100	1.4625	m	m	m	i	d	i	d	d	i	d	d	Compliant
<b>PECOSIL PS-100K</b>	Potassium Dimethicone PEG-7 Phosphate	150522-09-1	Potassium salt of Pecosil PS-100 but provides more cushion. Also functions as a primary o/w emulsifier with uses similar to Pecosil PS-100.	Liquid	55	N/A	m	d	m	m	d	i	i	i	i	i	i	Compliant
<b>PECOSIL PS-112</b>	Dimethicone PEG-7 Phosphate	132207-31-9	A high molecular weight polymeric analog of Pecosil PS-100. Recommended for the same uses, except it contains 12 ionizable phosphate groups.	Liquid	100	1.4620	m	m	m	m	d	i	i	d	d	d	d	Compliant
<b>PECOSIL PS-11220</b>	Dimethicone PEG-20 Phosphate	132207-31-9	A high molecular weight polymeric analog of Pecosil PS-112. Recommended for the same uses, except it contains 20 ionizable phosphate groups.	Solid	100	N/A	m(w)	m(w)	s(w)	i	i	i	i	i	i	i	i	Compliant
<b>PECOSIL WDS-100</b>	Dimethicone PEG/PPG-7/4 Phosphate	132207-31-9, 25322-68-3	Same as Pecosil PS-100 but more substantive to skin & hair.	Liquid	100	1.4600	m	m	m	i	d	i	i	i	i	i	i	Compliant

# Silicones - Organofunctional [Pecosil®]

## Silicone Quaternaries & Panthenol Co-Polymers

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PECOSIL 36PS</b>	Dilinoleamidopropyl Dimethylamine Dimethicone PEG-7 Phosphate	138698-34-7	Functions as an emulsifier for high molecular weight silicone fluids in shampoo systems.	Liquid	50	N/A	m	s	m	i	d	i	i	i	i	i	i	Compliant
<b>PECOSIL PAN-12</b>	Potassium Dimethicone PEG-7 Panthenyl Phosphate	368869-78-7	Higher molecular weight analog to Pecosil SPP-50 except it contains 12 panthenol groups.	Liquid	50	N/A	m	d	m	i	d	i	i	i	i	i	i	Compliant
<b>PECOSIL PAN-1218Q</b>	Stearidimonium Hydroxypropyl Panthenyl PEG-7 Dimethicone Phosphate Chloride	220714-77-2	Same as Pecosil PAN-418 except contains 12 panthenol & 12 stearyl quaternary groups.	Liquid	35	N/A	m	d	m	i	d	i	i	i	i	i	i	Compliant
<b>PECOSIL PAN-400</b>	Dimethicone PEG-7 Panthenyl Polyethoxy Phosphate	368869-78-7	Functions like Pecosil SPP-50 except it is suitable for anhydrous systems lipstick, make-up, nail treatment & hot oil treatments.	Liquid	100	1.4615	m	m	m	d	i	i	i	d	i	i	i	Compliant
<b>PECOSIL PAN-418</b>	Stearidimonium Hydroxypropyl Panthenyl PEG-7 Dimethicone Phosphate Chloride	220714-77-2	A tetrapanthenol, tetraquaternary silicone that provides enhanced substantivity, body & sheen to hair.	Liquid	37	N/A	m	d	m	i	d	i	i	i	i	i	i	Compliant
<b>PECOSIL PSQ-1218</b>	Stearidimonium Hydroxypropyl PEG-7 Dimethicone Phosphate Chloride	NONE	Higher molecular weight analog to Pecosil PSQ-418 except it contains 12 panthenol groups.	Liquid	40	N/A	m	d	m	i	d	i	i	i	i	i	i	Compliant
<b>PECOSIL PSQ-418</b>	Stearidimonium Hydroxypropyl PEG-7 Dimethicone Phosphate	220714-63-6	A tetrastearyl quaternary that has a strong affinity to hair & skin. Its emolliency and substantivity conditions hair providing manageability & superior comb through properties.	Liquid	40	N/A	m	d	m	i	d	i	i	i	i	i	i	Compliant
<b>PECOSIL SPP-50</b>	Potassium Dimethicone PEG-7 Panthenyl Phosphate	368869-78-7	Combines both silicone & panthenol properties into one molecule. Provides hydration, conditioning & improved wet/dry-comb characteristics to hair.	Liquid	50	N/A	m	d	m	i	d	i	i	i	i	i	i	Compliant

# Silicones - Organofunctional [Pecosil®]

## Silicone Gels

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PECOSIL G</b>	Dimethicone & Cyclomethicone & Phenyltrimethicone & Trimethylsiloxysilicate	9016-00-6, 69430-24-6, 2116-84-9, 56275-01-5	Skin creams, lotions, make-up & silky emollient.	Gel	100	N/A	i	i	i	i	d	i	d	d(w)	d	i	i	Compliant
<b>PECOSIL G-5</b>	Dimethicone & Phenyl Methicone & C30-45 Olefin	9016-00-6, 9005-12-3, 260255-62-7	Skin creams, lotions, make-up & silky emollient.	Gel	100	N/A	i	i	i	i	i	i	i	i	i	i	i	Compliant
<b>PECOSIL G-10</b>	Dimethicone & Isododecane & Trimethylsiloxysilicate & Ethylhexyl Hydroxystearate & C30-45 Olefin	9016-00-6, 31807-55-3, 56275-01-5, 29710-25-6	Imparts a particularly unique silky & lubricious feel to skin. Film forming properties make it very suitable for use in massage, exfoliate & sunscreen products; creams & lotions; shaving & bath products; make-up; & facial/body powders.	Gel	100	N/A	i	i	i	d	d	d	m	m	m	i	i	Compliant
<b>PECOSIL G-11</b>	Dimethicone & Isododecane & Ethylhexyl Hydroxystearate & Trimethylsiloxysilicate	9016-00-6, 31807-55-3, 56275-01-5, 29710-25-6	Imparts a particularly unique silky & lubricious feel to skin. Film forming properties make it very suitable for use in massage, exfoliate & sunscreen products; creams & lotions; shaving & bath products; make-up; & facial/body powders.	Gel	100	N/A	i	i	i	i	i	i	m	m	m	i	i	Compliant

# Silicones - Organofunctional [Pecosil®]

## Silicone Esters

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PECOSIL D3B</b>	Hydroxypropyl Dimethicone Behenate	NONE	Provides occlusive barrier on skin to prevent moisture loss, provides matte finish in color cosmetics & promotes transfer resistance in make up, lipstick & sunscreen products.	Paste	100	N/A	i	i, s(w)	i, s(w)	m	d	m	m	d	d, s(w)	m	m	Compliant
<b>PECOSIL DB</b>	Dimethiconol Behenate	176302-71-9	Extremely lubricious & emollient silicone ester. Useful in creams, lotions & hair conditioning.	Paste	100	N/A	i	i	i	m(w)	i	i	s(w)	i	i	i	s(w)	Compliant
<b>PECOSIL DCL</b>	Dimethicone PEG-7 Lactate	159100-34-2	Water-soluble, alpha-hydroxyacid silicone ester. Finds application in creams, lotions & bath products.	Liquid	100	1.4555	m	m	m	d	s	i	i	d	i	i	i	Compliant
<b>PECOSIL DCU</b>	Dimethicone PEG-7 Undecylenate	159100-33-1	Soluble in water & castor oil making the product useful in lipsticks & as a coupling agent.	Liquid	100	1.4590	m	m	d	d	m	d	i	d	i	i	i	Compliant

## Silicones for Pigment Coatings

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PECOSIL C8ES</b>	Octyltriethoxy Silane	2943-75-1	A reactive C <sub>8</sub> -alkyl silicone that will bond to pigment surfaces resulting in a covalently bound hydrophobic silicone coating.	Liquid	100	1.4170	i	m	i	m	m	m	m	m	m	m	m	Compliant
<b>PECOSIL SH-25L</b>	Dimethicone/Methicone Copolymer	68037-59-2	A reactive silicone that will bond to pigment surfaces resulting in a covalently bound hydrophobic silicone coating.	Liquid	100	1.4015	i	i	i	m	d	d	m	m	m	i	m	Compliant

# Silicones - Organofunctional [Pecosil®]

## Silicone Fluids

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PECOSIL ARS-09</b>	Phenyl Isopropyl Dimethicone	68037-77-4	Hydrophobic silicone wax.	Liquid	100	1.5185	i	i	d	m	i	d	m	d	i	m	m	Compliant
<b>PECOSIL ARS-12</b>	Lauryl Phenylisopropyl Dimethicone	68037-76-3	Hydrophobic silicone wax.	Liquid	100	1.4685	i	i	d	m	i	m	m	m	i	m	m	Compliant
<b>PECOSIL AS-16</b>	Cetyl Dimethicone	191044-49-2	Hydrophobic silicone wax.	Liquid	100	1.4350	i	i	d	m	d	m	m	m	i	m	m	Compliant
<b>PECOSIL AS-18</b>	Stearyl Dimethicone	67762-83-8	Hydrophobic silicone wax.	Liquid To Paste	100	N/A	i	i	i	m	i	m	s(w)	m	i	s(w)	s(w)	Compliant
<b>PECOSIL AS-22</b>	Behenyl Dimethicone	820212-36-0	Hydrophobic silicone wax.	Gel	100	N/A	i	i	i	m	i	m	s(w)	m	i	s(w)	s(w)	Compliant
<b>PECOSIL AS-26</b>	Ceretyl Dimethicone	820212-37-1	Hydrophobic silicone wax.	Soft Wax	100	N/A	i	i	i	s	i	s	s(w)	s	i	s(w)	s(w)	Compliant
<b>PECOSIL DCF-12</b>	PEG-12 Dimethicone	68937-54-2	A polymeric dimethicone copolyol fluid containing an average of 12 mols of ethylene oxide. Low odor cosmetic grade. Useful in a broad range of cosmetic products functioning as a wetting agent, emulsifier & foam builder.	Liquid	100	N/A	m	m	m	i	m	i	d	d	d	m	d	Compliant
<b>PECOSIL DCF-1818</b>	PEG/PPG-18/18 Dimethicone	68037-64-9	Emulsifier, wetting agent. Hair conditioner	Liquid	100	1.4475	m	m	d	m	m	d	i	d	i	m	m	Compliant
<b>PECOSIL FST-412</b>	Perfluorononyl ethyl Carboxydecyl Lauryl Dimethicone	499984-69-9	Hydrophobic & oleophobic fluorosilicone wax.	Liquid	100	1.4250	i(h)	d	i(h)	m	d	s(w)	m	m	i	m	m	Compliant
<b>PECOSIL FST-41222</b>	Perfluorononyl ethyl Carboxydecyl Lauryl/ Behenyl Dimethicone	499984-69-9	Hydrophobic & oleophobic fluorosilicone wax.	Solid	100	N/A	i(h)	i	i(h)	s(w)	d(h)	s(w)	m	s(w)	i	m(w)	m(w)	Compliant
<b>PECOSIL SO-9</b>	PEG-9 Dimethicone/PEG-9 Olive Phosphate	64365-23-7, 500757-36-8	100% active water soluble moisturizing & conditioning emollient system. Combines dimethicone copolyol properties with phosphated olive derivatives which have well established benefits to skin & hair.	Liquid	100	1.4635	m	m	m	i	s(w)	i(h)	i	d(h)	i	i	i	Compliant

# Silicones - Organofunctional [Pecosil®]

## Silicone Protein Copolymers

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
PECOSIL SP	Hydrolyzed Soy Protein/ Dimethicone PEG-7 Acetate	NONE	A soy protein equivalent of Pecosil SW-83 with similar properties & applications.	Liquid	35	N/A	m	d	m	i	d	i	i	i	i	i	i	Compliant
PECOSIL SW-83	Hydrolyzed Wheat Protein/ Dimethicone PEG-7 Acetate	NONE	Polymeric film-former substantive to hair. Combines both silicone & protein properties in one molecule. Imparts shine, body, manageability, conditioning, & repairs split ends. Useful in shampoos, conditioners, & styling gels. Also finds application in bath & body gels.	Liquid	30-35	N/A	m	d	m	i	d	i	i	i	i	i	i	Compliant
PECOSIL SWQ-40	Quaternium 86	206451-55-0	A quaternized Pecosil SW-83. Applications are similar, but more substantive & greater hydration to hair.	Liquid	35-38	N/A	m	d	m	i	d	i	i	i	i	i	i	Compliant

# Fluoro Silicone Fluids [Pecosil®]

## Water Soluble

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
PECOSIL FDM-30	Perfluorononylethyl Carboxydecyl PEG-10 Dimethicone	500218-22-4	Water soluble fluorosilicone fluid.	Liquid	100	1.4520	m	m	m	i	s(h)	i	i	i	i	m(w)	i	Compliant

# Fluoro Silicone Fluids [Pecosil®]

## Water Insoluble

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PECOSIL FDM-450</b>	Perfluorononyl ethyl Carboxydecyl PEG-10 Dimethicone	500218-22-4	Water insoluble oleophobic fluorosilicone.	Liquid	100	1.4230	i	m	m	d	d	i	i	i	i	i	i	Compliant
<b>PECOSIL FSH-150</b>	Perfluorononyl Dimethicone	259725-95-6	Has the same characteristics as Pecosil FSL-150, but is higher in viscosity(250 cps.) Useful where additional spreadability is desirable.	Liquid	100	1.4035	i	i	i	m	d	d	m	m	m	i	m	Compliant
<b>PECOSIL FSH-300</b>	Perfluorononyl Dimethicone	259725-95-6	Recommended for the same uses as Pecosil FSH-150. Contains a higher percentage of fluoro moiety. It is useful where additional hydrophobicity & spreadability are required.	Liquid	100	1.4030	i	i	i	m	d	d	m	m	m	i	m	Compliant
<b>PECOSIL FSL-150</b>	Perfluorononyl Dimethicone	259725-95-6	Extremely hydrophobic with broad solubility characteristics in silicones & esters. Finds application in lipstick, skin & make-up products. Its low viscosity (50 cps.) promotes lustrous, light hair conditioning.	Liquid	100	1.4050	i	i	i	m	d	d	m	m	m	i	m	Compliant
<b>PECOSIL FSL-300</b>	Perfluorononyl Dimethicone	259725-95-6	Has the same solubility characteristics & applications as Pecosil FSL-150, but is higher in fluoro content. It is useful where additional spreadability is desirable.	Liquid	100	1.4035	i	i	i	m	d	d	m	m	m	i	m	Compliant
<b>PECOSIL FSU-150</b>	Perfluorononyl Dimethicone	259725-95-6	Has excellent solubility characteristics & is much more viscous (circa 7,000-11,000 cps.) but with higher fluoro content. Excellent for use in lip products.	Liquid	100	1.4035	i	i	i	m	d	d	m	m	m	i	m	Compliant
<b>PECOSIL FSU-300</b>	Perfluorononyl Dimethicone	259725-95-6	Similar to Pecosil FSU-150 with similar viscosity, but higher fluoro content. Excellent for use in lip products.	Liquid	100	1.4030	i	i	i	m	d	d	m	m	m	i	m	Compliant

# Silicones - Organofunctional [Dicopamine®]

## Silicone Amines

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients										REACH	
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO		Pelemol IN-2
<b>DICOPAMINE DPN</b>	Butylene Glycol & Dilinoleamidopropyl Dimethylamine Dimethicone PEG-10 Phosphate	132207-31-9, 138337-31-2, 107-88-0	Useful as a conditioner in shampoos & rinse-out/ leave-in conditioners.	Liquid	50 in Butylene Glycol	N/A	m	s	m	i	d	i	i	i	i	i	i	Compliant
<b>DICOPAMINE PC-35</b>	Cetrimonium Chloride & Dimethicone PEG-7 Phosphate	112-02-7, 132207-31-9	Extremely mild conditioning complex.	Liquid	50	N/A	m	s	m	i	d	i	i	i	i	i	i	Compliant

## Ether [Coscap®]

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients										REACH	
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO		Pelemol IN-2
<b>COSCAP G7-MC</b>	Glycereth-7 Trimethyl Ether	305812-16-2	Liquid ether which produces a slightly dry, silky emolliency. Is stable over a wide pH range.	Liquid	100	1.4595	m	m	m	i	m	i	i	i	i	i	i	Compliant

# Emulsions & Emulsion Aids [PhenoMulse®]

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PHENOMULSE 100</b>	Polyhydroxystearic acid & Isononyl Isononanoate & Ethylhexyl Isononanoate & Sodium Cocamidopropyl PG Dimonium Chloride Phosphate	27924-99-8, 59219-71-5, 71566-49-9, 83682-78-4	Oil in water, emulsion aid.	Milky Emulsion	40	N/A	s	s	s	i	i	i	i	i	i	i	i	Compliant
<b>PHENOMULSE CE-1</b>	Polyhydroxystearic acid & Isononyl Isononanoate & Ethylhexyl Isononanoate & Sodium Cocamidopropyl PG Dimonium Chloride Phosphate & Methyl Perfluorobutyl Ether & Methyl Perfluoroisobutyl Ether	163702-08-7, 16702-07-6, 27924-99-8, 59219-71-5, 71566-49-9, 83682-78-4	Oil in water, emulsion aid containing CF-61 (Methyl Perfluorobutyl/isobutyl Ether) Fluid. Useful in self-foaming products.	Milky Emulsion	40	N/A	s	s	s	i	i	i	i	i	i	i	i	Compliant

# Polymeric Cosmetic Hydrogels [Pecogel®]

## Nonionic Polymers

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PECOGEL H-12</b>	VP/Polycarbamyl Polyglycol Ester	9003-39-8, 125687-22-1	Film-former that dries to a clear, continuous, non-tacky film. Is slippery when wet & resists removal with water. Useful in mascaras, increases body & manageability in shampoos/conditioners & provides humectancy in skin products.	Liquid	12 Aqueous	N/A	s	m	s	i	d	i	i	i	i	i	i	Compliant
<b>PECOGEL H-115</b>	VP/Polycarbamyl Polyglycol Ester	9003-39-8, 125687-22-1	Film-former with similar properties as Pecogel H-12, except dry film has greater water resistance.	Liquid	15 Aqueous	N/A	s	m	s	i	i	i	i	i	i	i	i	Compliant
<b>PECOGEL H-1220</b>	VP/Polycarbamyl Polyglycol Ester	9003-39-8, 125687-22-1	Film-former with similar properties as Pecogel H-12 & H-115, except dry film has greater water resistance than Pecogel H-115.	Liquid	20 Aqueous	N/A	d	s	d	i	d	i	i	i	i	i	i	Compliant

## Cationic Polymers

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PECOGEL GC-310</b>	VP/Dimethylaminoethyl-methacrylate/ Polycarbamyl Polyglycol Ester	9003-39-8, 30581-59-0, 125687-22-1	Cationic, polymeric film-former. Dry film properties similar to Pecogel H-12, but also resists removal with water. Useful in hair conditioners & hair styling products.	Liquid	10 Aqueous	N/A	s	i	s	i	d	i	i	i	i	i	i	Compliant
<b>PECOGEL GC-1110</b>	VP/Dimethylaminoethyl-methacrylate/ Polycarbamyl Polyglycol Ester	30581-59-0, 125687-22-1	Cationic, polymeric film-former. Dry film properties similar to Pecogel H-12, is less cationic in character than Pecogel GC-310 & more water resistant in dry film form. Useful in hair conditioners & hair styling products.	Liquid	10 Aqueous	N/A	d	i	s	i	i	i	i	i	i	i	i	Compliant

# Polymeric Cosmetic Hydrogels [Pecogel®]

## Nonionic Silicone Based Polymers

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PECOGEL HS-501</b>	VP/Dimethiconylacrylate/ Polycarbamyl Polyglycol Ester & VP/ Polycarbamyl Polyglycol Ester	135774-50- 4,125687-22-1, 9003-39-8	Silicone based film-former. Film is flexible & non-tacky when wet; & thicker/tougher than other hydrogel products.	Liquid	20 Aqueous	N/A	m	m	m	i	i	i	i	i	i	i	i	Compliant
<b>PECOGEL S-1120</b>	VP/Dimethiconylacrylate/ Polycarbamyl Polyglycol Ester	135774-50-4, 125687-22-1	Silicone based film-former. Dry film properties similar to Pecogel H-12, but insoluble in water. Uses similar as the Pecogel H series.	Liquid	20 Aqueous	N/A	d	d	d	i	d	i	i	i	i	i	i	Compliant
<b>PECOGEL S-2120</b>	VP/Dimethiconylacrylate/ Polycarbamyl Polyglycol Ester	135774-50-4, 125687-22-1	Silicone based film-former. Dry film properties similar to Pecogel H-12, but insoluble in water. Contains more silicone than Pecogel S-1120. Uses similar as the Pecogel H series.	Liquid	20 Aqueous	N/A	d	d	d	i	d	i	i	i	i	i	i	Compliant

# Polymers [Giovarez® & Pecorez®]

## Pigment Coatings

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>GIOVAREZ 1800</b>	Polyvinyl Stearyl Ether	9003-96-7	A film forming waxy polymer. Useful for color development, gloss in lipstick & a volumizer in mascara.	Solid	100	N/A	i	i	i	m(w)	d	m(w)	m(w)	m(w)	i	m(w)	m(w)	Compliant
<b>GIOVAREZ AC-5099M</b>	Isododecane & Acrylates Copolymer	25035-69-2, 13475-82-6	Useful in non-transfer makeup, lipstick & mascara.	Liquid	50 in Permethyl 99AD	N/A	i	i	i	m	d	m	m	i	i	m	m	Compliant
<b>GIOVAREZ ACW-372</b>	Acrylic Resin, Triethylammonium Salt	NONE	Forms a clear, glossy film. For water based nail enamels.	Liquid	44 in water	N/A	m	m	i	i	d	i	i	i	i	i	i	Compliant
<b>GIOVAREZ BTB-50</b>	Isododecane & Behenyl Methacrylate/t - Butyl Methacrylate Copolymer	13475-82-6, 928122-87-6	Forms continuous, smooth, water insoluble films. Useful as a polymer in very water resistant sunscreens, mascara, makeup & lipstick products.	Liquid	50 in Permethyl 99	N/A	i	i	d	m	d	m	m	i	i	m	m	Compliant
<b>GIOVAREZ P-0580</b>	Polyurethane-21	54954-83-5	Non-yellowing film former. Useful in creams, lotions & facial hydrating masks.	Liquid	35	N/A	m	i	i	i	i	i	i	i	i	i	i	Compliant
<b>PECOREZ AC-50</b>	Butyl Acetate & Acrylate Copolymer	25035-69-2, 123-86-4	Forms a clear, hard, smooth, glossy, non-yellowing film. Used for nail enamels.	Liquid	50 in Butyl Acetate	N/A	i	i	i	i	i	i	i	i	i	i	s(w)	Compliant
<b>PECOREZ AC-50E</b>	Ethyl Acetate & Acrylate Copolymer	25035-69-2, 141-78-6	Forms a clear, hard, smooth, glossy, non-yellowing film. Used for nail enamels.	Liquid	50 in Ethyl Acetate	N/A	i	s	i	i	i	i	i	i	i	i	i	Compliant

# Amidoamines [Catemol® & Phoenamid®]

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>CATEMOL 220</b>	Behenamidopropyl Dimethylamine	125804-04-8	Conditioner that adds body to hair & builds viscosity. Can be neutralized in-situ with organic or mineral acids to produce cationic conditioners.	Solid	100	N/A	i	m(h)	m(h)	m(h)	m(h)	i	i	i	i	m(h)	m(h)	Compliant
<b>CATEMOL C-120</b>	Cocamidopropyl Dimethylamine	68140-01-2	Similar to Catemol 220, but lower molecular weight & improves dry-comb.	Liquid	100	N/A	i	m(h)	m(h)	m(h)	m	i	i	i	i	m(h)	m(h)	Compliant
<b>CATEMOL S-180</b>	Stearamidopropyl Dimethylamine	7651-02-7	Similar to Catemol 220, but lower molecular weight, builds viscosity & functions as a hair conditioner.	Solid	100	N/A	i	s(h)	i	s(h)	s(h)	i	i	i	i	s(h)	s(h)	Compliant
<b>CATEMOL 360</b>	Dilinoleamidopropyl Dimethylamine	138337-31-2	A difunctional amidoamine that is greater than 50% vegetable derived. The in-situ formation of difunctional salts with organic or inorganic acids produces hair conditioners affording wide flexibility to the formulators. Useful in conditioners, conditioning shampoos, rinse-off and leave-in conditioners, water-in-oil emulsions.	Liquid	100	N/A	i	m	m	m(w)	m(w)	i	i	i	i	m(w)	m(w)	Compliant
<b>PHOENAMID 70 EXTRA</b>	Cocamide MEA	68140-00-1	Used in hair color systems at levels of 28-30% gives firm gels that do not drip or run; reduces the hair dye on the scalp.	Solid (Granular)	100	N/A	s(w)	m(w)	m(w)	s(w)	s(w)	d(w)	d(w)	i	i	m(w)	m(w)	Compliant
<b>PHOENAMID LMEA</b>	Lactamide MEA	5422-34-4	Humectant for skin and hair care products. Smooth non-greasy skin feel; adds sheen, conditioning to dull and overtreated hair.	Liquid	100	1.4800	m	m	m	i	m	i	i	i	i	i	i	Compliant
<b>PHOENAMID LMM</b>	Lauramide MEA	142-78-9	High purity lauric MEA amide that is an excellent viscosity improver and foam stabilizer. Useful in bath products, skin cleansers and liquid dish formulations.	Solid (Flakes)	100	N/A	s(w)	s(w)	s(w)	s(h)	s(h)	s(h)	s(h)	i	i	s(h)	s(h)	Compliant

# Quaternaries [Catemol®]

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients										REACH	
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO		Pelemol IN-2
<b>CATEMOL HBC-18</b>	Hydroxypropyl Bisstearyldimonium Chloride	118516-73-7	Hair conditioner.	Paste	45	N/A	i	m(w)	m	m(w)	i(w)	i(w)	i(w)	i(w)	i(w)	i(w)	i(w)	Compliant
<b>CATEMOL I-18 ES</b>	Isostearamidopropyl Ethyldimonium Ethosulfate	67633-63-0	Hair conditioner.	Viscous Liquid	85	N/A	m	m	i	m	i	i	i	i	i	i	i	Compliant
<b>CATEMOL MMM</b>	Cocamidopropyl Trimonium Chloride	521913-31-5	Excellent conditioner for shampoos, conditioners and cream-rinses. Also acts as an antistat to mitigate static-flyaway. Provides moisturization. Has excellent compatibility with SLS/SLES offering superior viscosity/thickening effects.	Liquid	60	N/A	m	m	m	i	m	m	i	i	i	i	i	Compliant
<b>CATEMOL WPL</b>	Lapyrium Chloride	6272-74-8	Hair & skin conditioner. Substantive with excellent after feel on hands & skin.	Powder	100	N/A	s(w) @ 2.5%	s(w)	i	i	i	i	i	i	i	i	i	Compliant
<b>CATEMOL WPC</b>	Steapyrium Chloride	14492-68-3	Hair & skin conditioner. Substantive with excellent after feel on hands & skin.	Powder	100	N/A	s(w) @ 2.5%	s(w)	i	i	i	i	i	i	i	i	i	Compliant

# Cationic Organic Salts [Catemol®]

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>CATEMOL 1825L</b>	Stearamidopropyl Dimethylamine Lactate	55819-53-9	Emulsifier & viscosity builder for conditioners & creams.	Slurry	20	N/A	d(h)	m	d	i	d	i	i	i	i	i	i	Compliant
<b>CATEMOL 220B</b>	Behenamidopropyl Dimethylamine Behenate	60270-33-9	Superior cationic conditioner & viscosity builder. Self-emulsifies in water at 80° C to form a cream. Dissolves in oils with warming & gels upon cooling. Forms heavy, creamy, stable water-in-oil emulsions. Dissolves in warm cyclomethicone & gels upon cooling.	Granular	100	N/A	d(h)	s(h)	s(h)	m(h)	s(h)	d(h)	i(h)	s(h)	i(h)	s(h)	s(h)	Compliant
<b>CATEMOL S180-S</b>	Stearamidopropyl Dimethylamine Stearate	7651-02-7, 57-11-4	Similar to Catemol 220-B.	Solid	100	N/A	s(h)	s(h)	m(h)	m(h)	s(h)	d(h)	i(h)	d(h)	i(h)	s(h)	s(h)	Compliant

# Proteins & Protein Derivatives [Neopro®]

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients										REACH	
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO		Pelemol IN-2
<b>NEOPRO EW</b>	Albumin	006-50-2	High molecular weight natural egg white (>40,000 daltons). Helps build viscosity & boosts foam in shampoos, skin cleansers & body washes. Restores luster & volume to hair. Exceptional film-former helps to promote skin tone & improve texture.	Powder	100	N/A	d	i	i	i	i	i	i	i	i	i	i	Compliant
<b>NEOPRO HEW</b>	Hydrolyzed Albumin	73049-73-7	Enzymatically hydrolyzed egg whites (1,200 daltons) promotes shine & adds volume to hair. Builds viscosity & lather in shampoos & body washes.	Powder	100	N/A	d	i	d	i	i	i	i	i	i	i	i	Compliant
<b>NEOPRO W-40</b>	Hydrolyzed Wheat Protein/ PEG-20 Acetate Copolymer	175893-70-6	Substantive film-forming conditioner. Repairs split ends; helps moisturize & hydrate dry hair.	Liquid	30-35	N/A	m	d	m	i	i	i	i	i	i	i	i	Compliant

# Alkoxylated Alcohols [PhenoXol®]

## Solubility in Commonly Used Solvents / Ingredients

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	REACH
PHOENOXOL BD-10P	PPG-10 Butanediol	None	Emollient for lotions, creams, foundation make-up, hair care products, antiperspirants. Lightens heavy greasy feel of heavier emollients.	Liquid	100	1.4490	m	m	m	m	m	i	i	d	i	m	m	
PHOENOXOL G-7	Glycereth-7	31694-55-0	Emulsifier, water-soluble emollient.	Liquid	100	1.4705	m	m	m		d	i	i	i	i	i	i	Compliant
PHOENOXOL G-26	Glycereth-26	31694-55-0	Emulsifier, solubilizer.	Liquid	100	1.4710	m	m	m	i	d	i	i	i	i	i	i	Compliant
PHOENOXOL L-2	Laureth-2	3055-93-4	Emulsifier.	Liquid	100	1.4485	i	m	m	m	m	m	m	d	i	m	m	Compliant
PHOENOXOL L-4	Laureth-4	5274-68-0	Emulsifier.	Liquid	100	1.4510	d	m	m	s	m	d	m	d	i	m	m	Compliant
PHOENOXOL L-7	Laureth-7	68551-12-2	Emulsifier.	Liquid	100	N/A	d	m	m	s	m	d	m	d		m	m	
PHOENOXOL L-9	Laureth-9	9002-92-0	Emulsifier.	Liquid to Semi-Solid	100	N/A	m(w)	m(w)	m(w)	d(w)	m(w)	d(w)	d(w)	i	i	i	i	Compliant
PHOENOXOL L-10	Laureth-10	9002-92-0	Emulsifier.	Liquid	100	N/A	m(w)	m(w)	m(w)	d(w)	m(w)	d(w)	d(w)	i	i	i	i	Compliant
PHOENOXOL L-23	Laureth-23	9002-92-0	Emulsifier, solubilizer.	Solid	100	N/A	m(w)	m(w)	d(w)	s(w)	i	i	i	i	i	i	i	Compliant
PHOENOXOL OL-3	Oleth-3	9004-98-2	Emulsifier.	Liquid	100	1.4605	i	m	m	m	m	m	m	d	i	m	m	Compliant
PHOENOXOL OL-5	Oleth-5	9004-98-2	Emulsifier.	Liquid	100	1.4610	i	m	m	s	m	m	m	d	i	m	m	Compliant
PHOENOXOL OL-10	Oleth-10	9004-98-2	Emulsifier.	Liquid	100	N/A	d	i	i	s	s	s	m	i	i	m	m	Compliant
PHOENOXOL PW	Cetearyl Alcohol Polysorbate 60	67762-27-0, 9005-65-6	Emulsifier.	Flake	100	N/A	d(w)	m(w)	m(w)	d(w)	m(w)	s(w)	m(w)	d(w)	i	m(w)	m(w)	Not Compliant
PHOENOXOL STA-2	Streareth-2	9005-00-9	Emulsifier.	Semi-Solid	100	N/A	i	d(w)	m(w)	m(w)	m(w)	m(w)		d(w)	i	m(w)	m(w)	Compliant
PHOENOXOL STA-20	Streareth-20	9005-00-9	Emulsifier.	Solid	100	N/A	m(w)	i	d(w)	d(w)	m(w)	d(w)		i	i	i	i	Compliant

# Alkoxyated Alcohols [Phoenoxol®]

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PHOENOXOL STA-2050</b>	Steareth-20	9005-00-9	Emulsifier.	Liquid	50 Aqueous	N/A	m	i	m	i	d	i	i	i	i	i	i	Compliant
<b>PHOENOXOL T</b>	Cetearyl Alcohol & Steareth-30 & Ceteth-10	67762-27-0, 9005-00-9, 68439-49-6	Emulsifier.	Liquid	100	N/A	se	s	m(h)	m(h)	s	m(h)	m(h)	d(h)	i	m(h)	m(h)	Compliant

# PEG Ethers [Phenoxyde®]

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PHOENOXIDE NP-9</b>	Nonoxynol-9	9016-45-9	Emulsifier.	Liquid	100	N/A	m	m	m	s	i	s	i	i	i	s	s	Compliant
<b>PHOENOXIDE CO-25</b>	PEG-25 Castor Oil	61791-12-6	Fragrance solubilizer & emulsifier.	Liquid	100	N/A	d	m	d	d	s	i	i	i	i	i	i	Compliant
<b>PHOENOXIDE CO-40</b>	PEG-40 Castor Oil	61791-12-6	Similar to Phenoxyde CO-25.	Liquid	100	N/A	m(w)	m(w)	i	i	m(w)	i	i	i	i	i	i	Compliant
<b>PHOENOXIDE CO-5</b>	PEG-5 Castor Oil	61791-12-6	Emulsifier.	Liquid	100	N/A	d	d	d	d	m	d	i	i	i	i	i	Compliant
<b>PHOENOXIDE E-400</b>	PEG-400	25322-68-3	Humectant, solvent, solubilizer.	Liquid	100	N/A	m	m	m	i	i	i	i	i	i	i	i	Compliant
<b>PHOENOXIDE HCO-16</b>	PEG-16 Hydrogenated Castor Oil	61788-85-0	Emulsifier.	Solid	100	N/A	d	d	d	d	m	s	d(h)	i	i	i	i	Compliant
<b>PHOENOXIDE HCO-40</b>	PEG-40 Hydrogenated Castor Oil	61788-85-0	Superior fragrance solubilizer.	Paste	100	N/A	m	m(w)	i	i	m(w)	i	i	i	i	i	i	Compliant
<b>PHOENOXIDE NP-4</b>	Nonoxynol-4	9016-45-9	Emulsifier.	Liquid	100	N/A	d	m	m	s	i	s	i	i	i	s	s	Compliant

# PEG Esters [Phoenate®]

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients											REACH
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	
<b>PHOENATE 150 DSA</b>	PEG-150 Distearate	9005-08-7	Efficient thickener for shampoos; facial and hand cleansers; transparent body washes; & other bath cleansing products.	Flakes	100	N/A	s(h)	s(h)	s(h)	i	i	i	i	i	i	i	i	Compliant
<b>PHOENATE 3 DSA</b>	PEG-3 Distearate	9005-08-7	Forms fine, highly aesthetic pearl in shampoos & other surfactant systems.	Solid	100	N/A	i	m(h)	i	s(h)	m(w)	d(h)	d(h)	d(h)	i	s(h)	s(h)	Compliant
<b>PHOENATE DL-4</b>	PEG-4 Dilaurate	9005-02-1	Water dispersible emollient emulsifier.	Liquid	100	N/A	d	m	d	m	m	d	m	d	i	m	m	Compliant
<b>PHOENATE DL-8</b>	PEG-8 Dilaurate	9005-02-1	Water dispersible oil-soluble emulsifier & emollient.	Liquid	100	N/A	d	m	d	m	m	i	m	d	i	m	m	Compliant
<b>PHOENATE DO-8</b>	PEG-8 Dilaurate	9005-07-6	Water dispersible oil-soluble emulsifier & emollient.	Liquid	100	N/A	d	m	d	m	m	d	m	i	i	m	m	Compliant
<b>PHOENATE GC-7</b>	PEG-7 Glyceryl Cocoate	68201-46-7	Emulsifier & emollient. Useful in both aqueous & anhydrous systems.	Liquid	100	N/A	d	m	d	d	m	i	i	i	i	m	m	Compliant
<b>PHOENATE GC-30</b>	PEG-30 Glyceryl Cocoate	68201-46-7	Liquid emulsifier for o/w emulsions.	Liquid	100	N/A	m	m	d	d	s	i	d(h)	i	i	i	i	Compliant
<b>PHOENATE MO-8</b>	PEG-8 Oleate	9004-96-0	Emulsifier & emollient. Useful in both aqueous & anhydrous systems.	Liquid	100	N/A	m	m	s	d	d	d	d	i	i	d	d	Compliant
<b>PHOENATE MO-12</b>	PEG-12 Monooleate	9004-96-0	Emulsifier & emollient. Useful in both aqueous & anhydrous systems.	Liquid	100	N/A	m	m	s	d	d	d	d	i	i	d	d	Compliant

## Solubility in Commonly Used Solvents / Ingredients

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO	Pelemol IN-2	REACH
PHOENIX HSA	12-Hydroxystearic Acid	106-14-9	Useful in forming cosmetic emulsions, creams, lotions; as a substitute for stearic acid to afford greater compatibility and higher melting point of the oil phase; offers structure to anhydrous waxes/blends for stick products. Gels many cosmetic emollient esters.	Solid (Flakes)	100	N/A	i	m(w)	s(w)	s(w)	s(w)	s(w)	s(w)	i	i	s(w)	s(w)	Compliant

# Phosphobetaines [Phoentaine®]

Product Name	INCI Name	CAS #	Properties/Application	Appearance	Activity %	Refractive Index	Solubility in Commonly Used Solvents / Ingredients										REACH	
							H <sub>2</sub> O	Ethanol	Propylene Glycol	Isopropyl Myristate	Castor Oil	Mineral Oil	Iso-dodecane	Volatile Silicones	Dimethicone Fluid	Pelemol PTO		Pelemol IN-2
<b>PHOENTAINE C-35</b>	Sodium Cocamidopropyl PG-Dimonium Chloride Phosphate	83682-78-4	A mild surfactant for body washes & shampoos. Boosts foam & enhances viscosity in surfactant systems.	Liquid	46-48	N/A	m	m	m	i	i	i	i	i	i	i	i	Compliant
<b>PHOENTAINE D-35</b>	Sodium Dilinoleamidopropyl PG-Dimonium Chloride Phosphate	1217792-23-8	Same as Phoentaine C-35, but tends to give heavier conditioning.	Liquid	29-31	N/A	m	m	m	i	i	i	i	i	i	i	i	Compliant

# List of Products by INCI or Chemical Name

12-Hydroxystearic Acid	<b>PHOENIX HSA</b>
Acrylic Resin, Triethylammonium Salt	<b>GIOVAREZ ACW-372</b>
Albumin	<b>NEOPRO EW</b>
Behenamidopropyl Dimethylamine	<b>CATEMOL 220</b>
Behenamidopropyl Dimethylamine Behenate	<b>CATEMOL 220-B</b>
Behenyl Behenate	<b>PELEMOL BB</b>
Behenyl Dimethicone	<b>PECOSIL AS-22</b>
Bis(Trioctyldodecyl Citryl) Dilinoleate	<b>PELEMOL C-150</b>
Butyl Acetate & Acrylate Copolymer	<b>PECOREZ AC-50</b>
Butylene Glycol & Dilinoleamidopropyl Dimethylamine Dimethicone PEG-10 Phosphate	<b>DICOPAMINE DPN</b>
Butylphthalimide & Isopropylphthalimide	<b>PELEMOL BIP-PC</b>
C12-15 Alkyl Benzoate	<b>PELEMOL 256</b>
C12-15 Alkyl Ethylhexanoate	<b>PELEMOL C25EH</b>
C12-15 Alkyl Lactate	<b>PELEMOL 1215L</b>
Caprylic/Capric Triglyceride	<b>PELEMOL CCT</b>
Ceretyl Dimethicone	<b>PECOSIL AS-26</b>
Cetearyl Alcohol & Steareth-30 & Ceteth-10	<b>PHOENOXOL T</b>
Cetearyl Alcohol Polysorbate 60	<b>PHOENOXOL PW</b>
Cetearyl Ethylhexanoate	<b>PELEMOL SPO</b>
Cetrimonium Chloride & Dimethicone PEG-7 Phosphate	<b>DICOPAMINE PC-35</b>
Cetyl Acetate	<b>PELEMOL CA</b>
Cetyl Dimethicone	<b>PECOSIL AS-16</b>
Cetyl Ethylhexanoate	<b>PELEMOL 168</b>
Cetyl Lactate	<b>PELEMOL CL</b>
Cetyl Palmitate	<b>PELEMOL CP</b>
Cetyl Ricinoleate	<b>PELEMOL CR</b>
Cocamide MEA	<b>PHOENAMID 70 EXTRA</b>
Cocamidopropyl Dimethylamine	<b>CATEMOL C-120</b>
Cocamidopropyl Trimonium Chloride	<b>CATEMOL MMM</b>
Decyl Oleate	<b>PELEMOL DO</b>
Diethylhexyl Adipate	<b>PELEMOL DOA</b>
Diethylhexyl Maleate	<b>PELEMOL DOM</b>
Dihydroabietyl Behenate	<b>PELEMOL HAB</b>
Diisopropyl Adipate	<b>PELEMOL DIA</b>
Diisopropyl Dimer Dilinoleate	<b>PELEMOL D9336</b>
Diisopropyl Sebacate	<b>PELEMOL DIPS</b>
Diisostearyl Adipate	<b>PELEMOL DISA</b>
Diisostearyl Dimer Dilinoleate	<b>PELEMOL DISD</b>
Diisostearyl Malate	<b>PELEMOL DISM</b>
Diisostearyl Malate	<b>PELEMOL DISM-V</b>
Dilinoleamidopropyl Dimethylamine	<b>CATEMOL 360</b>
Dilinoleamidopropyl Dimethylamine Dimethicone PEG-7 Phosphate	<b>PECOSIL 36PS</b>
Dilinoleic Acid/Propanediol Copolymer	<b>PELEMOL P3D</b>
Dimer Dilinoleyl Dimer Dilinoleate & Propanediol Dicaprylate/caprate & Polyglyceryl-3 Behenate	<b>PELEMOL D3GP</b>
Dimer Dilinoleyl Dimer Dilinoleate & Triisostearin	<b>PELEMOL VL</b>
Dimethicone & Cyclomethicone & Phenyltrimethicone & Trimethylsiloxy silicate	<b>PECOSIL G</b>
Dimethicone & Isododecane & Ethylhexyl Hydroxystearate & Trimethylsiloxy silicate	<b>PECOSIL G-11</b>
Dimethicone & Isododecane & Trimethylsiloxy silicate & Ethylhexyl Hydroxystearate & C30-45 Olefin	<b>PECOSIL G-10</b>
Dimethicone & Phenyl Methicone & C30-45 Olefin	<b>PECOSIL G-5</b>
Dimethicone PEG/PPG-7/4 Phosphate	<b>PECOSIL WDS-100</b>
Dimethicone PEG-20 Phosphate	<b>PECOSIL PS-11220</b>
Dimethicone PEG-7 Lactate	<b>PECOSIL DCL</b>
Dimethicone PEG-7 Panthenyl Polyethoxy Phosphate	<b>PECOSIL PAN-400</b>
Dimethicone PEG-7 Phosphate	<b>PECOSIL PS-100</b>
Dimethicone PEG-7 Phosphate	<b>PECOSIL PS-112</b>
Dimethicone PEG-7 Undecylenate	<b>PECOSIL DCU</b>

Dimethicone/Methicone Copolymer	<b>PECOSIL SH-25L</b>
Dimethiconol Behenate	<b>PECOSIL DB</b>
Dimmer Dilinoleyl Dimer Dilinoleate	<b>PELEMOL DD</b>
Dipentaerythrityl Tetrabenenate/ Polyhydroxystearate	<b>PELEMOL DP-144B</b>
Dipentaerythrityl Tetrahydroxystearate/ Isostearate	<b>PELEMOL DP-72</b>
Ethyl Acetate & Acrylate Copolymer	<b>PECOREZ AC-50E</b>
Ethylhexyl Isononanoate	<b>PELEMOL 89</b>
Ethylhexyl Isononanoate & Cetyl Dimethicone	<b>PELEMOL D5R-1</b>
Ethylhexyl Palmitate	<b>PELEMOL OP</b>
Ethylhexyl Pelargonate	<b>PELEMOL OPG</b>
Ethylhexyl Stearate	<b>PELEMOL OS</b>
Glycereth-26	<b>PHOENOXOL G-26</b>
Glycereth-5 Lactate	<b>PELEMOL G45L</b>
Glycereth-7	<b>PHOENOXOL G-7</b>
Glycereth-7 Benzoate	<b>PELEMOL G7B</b>
Glycereth-7 Triacetate	<b>PELEMOL G7A</b>
Glycereth-7 Trimethyl Ether	<b>COSCAP G7-MC</b>
Glyceryl Behenate	<b>PELEMOL GMB</b>
Glyceryl Ricinoleate	<b>PELEMOL GMR</b>
Hydrogenated Castor Oil	<b>PELEMOL HCO</b>
Hydrolyzed Albumin	<b>NEOPRO HEW</b>
Hydrolyzed Soy Protein/ Dimethicone PEG-7 Acetate	<b>PECOSIL SP</b>
Hydrolyzed Wheat Protein/ Dimethicone PEG-7 Acetate	<b>PECOSIL SW-83</b>
Hydrolyzed Wheat Protein/ PEG-20 Acetate Copolymer	<b>NEOPRO W-40</b>
Hydroxypropyl Bisstearyldimonium Chloride	<b>CATEMOL HBC-18</b>
Hydroxypropyl Dimethicone Behenate	<b>PECOSIL D3B</b>
Isocetyl Behenate	<b>PELEMOL ICB</b>
Isocetyl Ethylhexanoate	<b>PELEMOL ICO</b>
Isocetyl Isostearate	<b>PELEMOL ICIS</b>
Isocetyl Stearate	<b>PELEMOL ICS</b>
Isodecyl Ethylhexanoate	<b>PELEMOL 108</b>
Isodecyl Oleate	<b>PELEMOL IDO</b>
Isododecane & Acrylates Copolymer	<b>GIOVAREZ AC-5099M</b>
Isododecane & Behenyl Methacrylate/t - Butyl Methacrylate Copolymer	<b>GIOVAREZ BTB-50</b>
Isononyl Isononanoate	<b>PELEMOL IN-2</b>
Isononyl Isononanoate Ethylhexyl Isononanoate	<b>PELEMOL 899</b>
Isopropyl Myristate	<b>PELEMOL IPM</b>
Isostearamidopropyl Ethyldimonium Ethosulfate	<b>CATEMOL I 18 ES</b>
Isostearyl Behenate	<b>PELEMOL ISB</b>
Isostearyl Hydroxystearate	<b>PELEMOL ISHS</b>
Isostearyl Isostearate	<b>PELEMOL II</b>
Isostearyl Lactate	<b>PELEMOL ISL</b>
Isostearyl Neopentanoate	<b>PELEMOL ISNP</b>
Isostearyl Palmitate	<b>PELEMOL I-1816</b>
Lactamide MEA	<b>PHOENAMID LMEA</b>
Lapyrium Chloride	<b>CATEMOL WPL</b>
Lauramide MEA	<b>PHOENAMID LMM</b>
Laureth-10	<b>PHOENOXOL L-10</b>
Laureth-2	<b>PHOENOXOL L-2</b>
Laureth-23	<b>PHOENOXOL L-23</b>
Laureth-4	<b>PHOENOXOL L-4</b>
Laureth-7	<b>PHOENOXOL L-7</b>
Laureth-9	<b>PHOENOXOL L-9</b>
Lauryl Lactate	<b>PELEMOL LL</b>
Lauryl Phenylisopropyl Dimethicone	<b>PECOSIL ARS-12</b>
Methyl Acetyl Ricinoleate	<b>PELEMOL MAR</b>
Myristyl Lactate	<b>PELEMOL ML</b>
Myristyl Myristate	<b>PELEMOL MM</b>
Myristyl Stearate	<b>PELEMOL MS</b>
Neopentylglycol Diethylhexanoate	<b>PELEMOL NGDO</b>

Neopentylglycol Dicaprate/ Dicaprylate	<b>PELEMOL NPGDD</b>
Nonoxynol-4	<b>PHOENOXIDE NP-4</b>
Nonoxynol-9	<b>PHOENOXIDE NP-9</b>
Octyldodecyl Behenate	<b>PELEMOL 2022</b>
Octyldodecyl Erucate	<b>PELEMOL EE</b>
Octyldodecyl Myristate	<b>PELEMOL 2014</b>
Octyldodecyl Ricinoleate	<b>PELEMOL ODR</b>
Octyldodecyl Stearoyl Stearate	<b>PELEMOL ODSS</b>
Octyltriethoxy Silane	<b>PECOSIL C8ES</b>
Oleth-10	<b>PHOENOXOL OL-10</b>
Oleth-3	<b>PHOENOXOL OL-3</b>
Oleth-5	<b>PHOENOXOL OL-5</b>
Oleyl Erucate	<b>PELEMOL OE</b>
Oleyl Lactate	<b>PELEMOL OL</b>
PEG/PPG-18/18 Dimethicone	<b>PECOSIL DCF-1818</b>
PEG-12 Dimethicone	<b>PECOSIL DCF-12</b>
PEG-12 Monooleate	<b>PHOENATE MO-12</b>
PEG-150 Distearate	<b>PHOENATE 150 DSA</b>
PEG-16 Hydrogenated Castor Oil	<b>PHOENOXIDE HCO-16</b>
PEG-25 Castor Oil	<b>PHOENOXIDE CO-25</b>
PEG-3 Distearate	<b>PHOENATE 3 DSA</b>
PEG-30 Glyceryl Cocoate	<b>PHOENATE GC-30</b>
PEG-4 Dilaurate	<b>PHOENATE DL-4</b>
PEG-40 Castor Oil	<b>PHOENOXIDE CO-40</b>
PEG-40 Hydrogenated Castor Oil	<b>PHOENOXIDE HCO-40</b>
PEG-400	<b>PHOENOXIDE E-400</b>
PEG-5 Castor Oil	<b>PHOENOXIDE CO-5</b>
PEG-7 Glyceryl Cocoate	<b>PHOENATE GC-7</b>
PEG-8 Dilaurate	<b>PHOENATE DL-8</b>
PEG-8 Dioleate	<b>PHOENATE DO-8</b>
PEG-8 Oleate	<b>PHOENATE MO-8</b>
PEG-9 Dimethicone/PEG-9 Olive Phosphate	<b>PECOSIL SO-9</b>
Pentaerythrityl Tetraacetate	<b>PELEMOL PTA</b>
Pentaerythrityl Tetraethylhexanoate	<b>PELEMOL PTO</b>
Pentaerythrityl Tetraisononanoate	<b>PELEMOL P-49</b>
Pentaerythrityl Tetraisostearate	<b>PELEMOL PTIS</b>
Pentaerythrityl Tetralaurate	<b>PELEMOL PTL</b>
Pentaerythrityl Tetrapelargonate	<b>PELEMOL PTP</b>
Perfluorononyl Dimethicone	<b>PECOSIL FSH-150</b>
Perfluorononyl Dimethicone	<b>PECOSIL FSH-300</b>
Perfluorononyl Dimethicone	<b>PECOSIL FSL-150</b>
Perfluorononyl Dimethicone	<b>PECOSIL FSL-300</b>
Perfluorononyl Dimethicone	<b>PECOSIL FSU-150</b>
Perfluorononyl Dimethicone	<b>PECOSIL FSU-300</b>
Perfluorononyl Diethyl Carboxydecyl Dimethicone PEG-7 Phosphate	<b>PECOSIL F-112</b>
Perfluorononyl Diethyl Carboxydecyl Lauryl Dimethicone	<b>PECOSIL FST-412</b>
Perfluorononyl Diethyl Carboxydecyl Lauryl/Behenyl Dimethicone	<b>PECOSIL FST-41222</b>
Perfluorononyl Diethyl Carboxydecyl PEG-10 Dimethicone	<b>PECOSIL FDM-30</b>
Perfluorononyl Diethyl Carboxydecyl PEG-10 Dimethicone	<b>PECOSIL FDM-450</b>
Phenyl Isopropyl Dimethicone	<b>PECOSIL ARS-09</b>
Polyglyceryl-10 Hexaoleate & Polyglyceryl-6 Polyricinoleate	<b>PELEMOL P-1263</b>
Polyglyceryl-3 Behenate	<b>PELEMOL 3G22</b>
Polyglyceryl-6 Polyricinoleate	<b>PELEMOL 6GPR</b>
Polyhydroxystearic Acid	<b>PELEMOL PHS-8</b>
Polyhydroxystearic acid & Isononyl Isononanoate & Ethylhexyl Isononanoate & Sodium Cocamidopropyl PG Dimonium Chloride Phosphate	<b>PHOENOMULSE 100</b>

Polyhydroxystearic acid & Isononyl Isononanoate & Ethylhexyl Isononanoate Sodium Cocamidopropyl PG Dimonium Chloride Phosphate & Methyl Perfluorobutyl Ether & Methyl Perfluoroisobutyl Ether	<b>PHOENOMULSE CE-1</b>
Polyurethane-21	<b>GIOVAREZ P-0580</b>
Polyvinyl Stearyl Ether	<b>GIOVAREZ 1800</b>
Potassium Dimethicone PEG-7 Panthenyl Phosphate	<b>PECOSIL PAN-12</b>
Potassium Dimethicone PEG-7 Panthenyl Phosphate	<b>PECOSIL SPP-50</b>
Potassium Dimethicone PEG-7 Phosphate	<b>PECOSIL PS-100K</b>
PPG-10 Butanediol	<b>PHOENOXOL BD-10P</b>
PPG-2 Dimer Dilinoleate Copolymer	<b>PELEMOL D-2000</b>
PPG-26 Dimer Dilinoleate Copolymer & Isononyl Isononanoate & Ethylhexyl Isononanoate	<b>PELEMOL D-899</b>
Propanediol Dicaprylate/caprate	<b>PELEMOL P-810</b>
Propanediol Dicaprylate/caprate & Diisostearyl Malate	<b>PELEMOL D5R-V</b>
Propylene Glycol Dicaprylate/Dicaprate	<b>PELEMOL PDD</b>
Propylene Glycol Dipelargonate	<b>PELEMOL PGDP</b>
Quaternium 86	<b>PECOSIL SWQ-40</b>
Sodium Cocamidopropyl PG-Dimonium Chloride Phosphate	<b>PHOENOTAIN C-35</b>
Sodium Dilinoleamidopropyl PG-Dimonium Chloride Phosphate	<b>PHOENOTAIN D-35</b>
Steapyrium Chloride	<b>CATEMOL WPC</b>
Stearamidopropyl Dimethylamine	<b>CATEMOL S-180</b>
Stearamidopropyl Dimethylamine Lactate	<b>CATEMOL 1825L</b>
Stearamidopropyl Dimethylamine Stearate	<b>CATEMOL S180-S</b>
Stearidmonium Hydroxypropyl Panthenyl PEG-7 Dimethicone Phosphate Chloride	<b>PECOSIL PAN-1218Q</b>
Stearidmonium Hydroxypropyl Panthenyl PEG-7 Dimethicone Phosphate Chloride	<b>PECOSIL PAN-418</b>
Stearidmonium Hydroxypropyl PEG-7 Dimethicone Phosphate	<b>PECOSIL PSQ-418</b>
Stearidmonium Hydroxypropyl PEG-7 Dimethicone Phosphate Chloride	<b>PECOSIL PSQ-1218</b>
Stearyl Dimethicone	<b>PECOSIL AS-18</b>
Stearyl Heptanoate	<b>PELEMOL 187</b>
Streareth-2	<b>PHOENOXOL</b>
Streareth-20	<b>PHOENOXOL STA-20</b>
Streareth-20	<b>PHOENOXOL STA-2050</b>
Tribehenin	<b>PELEMOL GTB</b>
Tribehenin & Caprylic/Capric Triglyceride	<b>PELEMOL TT</b>
Tridecyl Erucate	<b>PELEMOL TDE</b>
Tridecyl Trimellitate	<b>PELEMOL TDTM</b>
Triethylhexanoin	<b>PELEMOL GTO</b>
Triethylhexyl Trimellitate	<b>PELEMOL TOTM</b>
Trihydroxystearin	<b>PELEMOL GTHS</b>
Triisostearin	<b>PELEMOL GTIS</b>
Triisostearin/Glyceryl Behenate	<b>PELEMOL JEC</b>
Triisostearyl Citrate	<b>PELEMOL TISC</b>
Trimethylolpropane Triethylhexanoate	<b>PELEMOL TMPPO</b>
Trimethylolpropane Triisostearate	<b>PELEMOL TMPIS</b>
Trioctyldodecyl Citrate	<b>PELEMOL TGC</b>
VP/Dimethiconylacrylate/ Polycarbamyl Polyglycol Ester	<b>PECOGEL S-2120</b>
VP/Dimethiconylacrylate/ Polycarbamyl Polyglycol Ester	<b>PECOGEL S-1120</b>
VP/Dimethiconylacrylate/ Polycarbamyl Polyglycol Ester & VP/ Polycarbamyl Polyglycol Ester	<b>PECOGEL HS-501</b>
VP/Dimethylaminoethyl- methacrylate/ Polycarbamyl Polyglycol Ester	<b>PECOGEL GC-310</b>
VP/Dimethylaminoethyl-methacrylate/ Polycarbamyl Polyglycol Ester	<b>PECOGEL GC-1110</b>
VP/Polycarbamyl Polyglycol Ester	<b>PECOGEL H-115</b>
VP/Polycarbamyl Polyglycol Ester	<b>PECOGEL H-12</b>
VP/Polycarbamyl Polyglycol Ester	<b>PECOGEL H-1220</b>

# List of Products by Trade Name

<b>CATEMOL 1825L</b>	Stearamidopropyl Dimethylamine Lactate
<b>CATEMOL 220</b>	Behenamidopropyl Dimethylamine
<b>CATEMOL 220-B</b>	Behenamidopropyl Dimethylamine Behenate
<b>CATEMOL 360</b>	Dilinoleamidopropyl Dimethylamine
<b>CATEMOL C-120</b>	Cocamidopropyl Dimethylamine
<b>CATEMOL HBC-18</b>	Hydroxypropyl Bisstearyldimonium Chloride
<b>CATEMOL I 18 ES</b>	Isostearamidopropyl Ethyldimonium Ethosulfate
<b>CATEMOL MMM</b>	Cocamidopropyl Trimonium Chloride
<b>CATEMOL S-180</b>	Stearamidopropyl Dimethylamine
<b>CATEMOL S180-S</b>	Stearamidopropyl Dimethylamine Stearate
<b>CATEMOL WPC</b>	Steapyrium Chloride
<b>CATEMOL WPL</b>	Lapyrium Chloride
<b>COSCAP G7-MC</b>	Glycereth-7 Trimethyl Ether
<b>DICOPAMINE DPN</b>	Butylene Glycol & Dilinoleamidopropyl Dimethylamine Dimethicone PEG-10 Phosphate
<b>DICOPAMINE PC-35</b>	Cetrimonium Chloride & Dimethicone PEG-7 Phosphate
<b>GIOVAREZ 1800</b>	Polyvinyl Stearyl Ether
<b>GIOVAREZ AC-5099M</b>	Isododecane & Acrylates Copolymer
<b>GIOVAREZ ACW-372</b>	Acrylic Resin, Triethylammonium Salt
<b>GIOVAREZ BTB-50</b>	Isododecane & Behenyl Methacrylate/t - Butyl Methacrylate Copolymer
<b>GIOVAREZ P-0580</b>	Polyurethane-21
<b>NEOPRO EW</b>	Albumin
<b>NEOPRO HEW</b>	Hydrolyzed Albumin
<b>NEOPRO W-40</b>	Hydrolyzed Wheat Protein/ PEG-20 Acetate Copolymer
<b>PECOGEL GC-1110</b>	VP/Dimethylaminoethyl-methacrylate/ Polycarbamyl Polyglycol Ester
<b>PECOGEL GC-310</b>	VP/Dimethylaminoethyl- methacrylate/ Polycarbamyl Polyglycol Ester
<b>PECOGEL H-115</b>	VP/Polycarbamyl Polyglycol Ester
<b>PECOGEL H-12</b>	VP/Polycarbamyl Polyglycol Ester
<b>PECOGEL H-1220</b>	VP/Polycarbamyl Polyglycol Ester
<b>PECOGEL HS-501</b>	VP/Dimethiconylacrylate/ Polycarbamyl Polyglycol Ester & VP/ Polycarbamyl Polyglycol Ester
<b>PECOGEL S-1120</b>	VP/Dimethiconylacrylate/ Polycarbamyl Polyglycol Ester
<b>PECOGEL S-2120</b>	VP/Dimethiconylacrylate/ Polycarbamyl Polyglycol Ester
<b>PECOREZ AC-50</b>	Butyl Acetate & Acrylate Copolymer
<b>PECOREZ AC-50E</b>	Ethyl Acetate & Acrylate Copolymer
<b>PECOSIL 36PS</b>	Dilinoleamidopropyl Dimethylamine Dimethicone PEG-7 Phosphate
<b>PECOSIL ARS-09</b>	Phenyl Isopropyl Dimethicone
<b>PECOSIL ARS-12</b>	Lauryl Phenylisopropyl Dimethicone
<b>PECOSIL AS-16</b>	Cetyl Dimethicone
<b>PECOSIL AS-18</b>	Stearyl Dimethicone
<b>PECOSIL AS-22</b>	Behenyl Dimethicone
<b>PECOSIL AS-26</b>	Ceretyl Dimethicone
<b>PECOSIL C8ES</b>	Octyltriethoxy Silane
<b>PECOSIL D3B</b>	Hydroxypropyl Dimethicone Behenate
<b>PECOSIL DB</b>	Dimethiconol Behenate
<b>PECOSIL DCF-12</b>	PEG-12 Dimethicone
<b>PECOSIL DCF-1818</b>	PEG/PPG-18/18 Dimethicone
<b>PECOSIL DCL</b>	Dimethicone PEG-7 Lactate
<b>PECOSIL DCU</b>	Dimethicone PEG-7 Undecylenate
<b>PECOSIL F-112</b>	Perfluorononyl ethyl Carboxydecyl Dimethicone PEG-7 Phosphate
<b>PECOSIL FDM-30</b>	Perfluorononyl ethyl Carboxydecyl PEG-10 Dimethicone
<b>PECOSIL FDM-450</b>	Perfluorononyl ethyl Carboxydecyl PEG-10 Dimethicone
<b>PECOSIL FSH-150</b>	Perfluorononyl Dimethicone
<b>PECOSIL FSH-300</b>	Perfluorononyl Dimethicone
<b>PECOSIL FSL-150</b>	Perfluorononyl Dimethicone
<b>PECOSIL FSL-300</b>	Perfluorononyl Dimethicone

<b>PECOSIL FST-412</b>	Perfluorononyl ethyl Carboxydecyl Lauryl Dimethicone
<b>PECOSIL FST-41222</b>	Perfluorononyl ethyl Carboxydecyl Lauryl/Behenyl Dimethicone
<b>PECOSIL FSU-150</b>	Perfluorononyl Dimethicone
<b>PECOSIL FSU-300</b>	Perfluorononyl Dimethicone
<b>PECOSIL G</b>	Dimethicone & Cyclomethicone & Phenyltrimethicone & Trimethylsiloxysilicate
<b>PECOSIL G-5</b>	Dimethicone & Phenyl Methicone & C30-45 Olefin
<b>PECOSIL G-10</b>	Dimethicone & Isododecane & Trimethylsiloxysilicate & Ethylhexyl Hydroxystearate & C30-45 Olefin
<b>PECOSIL G-11</b>	Dimethicone & Isododecane & Ethylhexyl Hydroxystearate & Trimethylsiloxysilicate
<b>PECOSIL PAN-12</b>	Potassium Dimethicone PEG-7 Panthenyl Phosphate
<b>PECOSIL PAN-1218Q</b>	Stearidimonium Hydroxypropyl Panthenyl PEG-7 Dimethicone Phosphate Chloride
<b>PECOSIL PAN-400</b>	Dimethicone PEG-7 Panthenyl Polyethoxy Phosphate
<b>PECOSIL PAN-418</b>	Stearidimonium Hydroxypropyl Panthenyl PEG-7 Dimethicone Phosphate Chloride
<b>PECOSIL PS-100</b>	Dimethicone PEG-7 Phosphate
<b>PECOSIL PS-100K</b>	Potassium Dimethicone PEG-7 Phosphate
<b>PECOSIL PS-112</b>	Dimethicone PEG-7 Phosphate
<b>PECOSIL PS-11220</b>	Dimethicone PEG-20 Phosphate
<b>PECOSIL PSQ-1218</b>	Stearidimonium Hydroxypropyl PEG-7 Dimethicone Phosphate Chloride
<b>PECOSIL PSQ-418</b>	Stearidimonium Hydroxypropyl PEG-7 Dimethicone Phosphate
<b>PECOSIL SH-25L</b>	Dimethicone/Methicone Copolymer
<b>PECOSIL SO-9</b>	PEG-9 Dimethicone/PEG-9 Olive Phosphate
<b>PECOSIL SP</b>	Hydrolyzed Soy Protein/ Dimethicone PEG-7 Acetate
<b>PECOSIL SPP-50</b>	Potassium Dimethicone PEG-7 Panthenyl Phosphate
<b>PECOSIL SW-83</b>	Hydrolyzed Wheat Protein/ Dimethicone PEG-7 Acetate
<b>PECOSIL SWQ-40</b>	Quaternium 86
<b>PECOSIL WDS-100</b>	Dimethicone PEG/PPG-7/4 Phosphate
<b>PELEMOL 108</b>	Isodecyl Ethylhexanoate
<b>PELEMOL 1215L</b>	C12-15 Alkyl Lactate
<b>PELEMOL 168</b>	Cetyl Ethylhexanoate
<b>PELEMOL 187</b>	Stearyl Heptanoate
<b>PELEMOL 2014</b>	Octyldodecyl Myristate
<b>PELEMOL 2022</b>	Octyldodecyl Behenate
<b>PELEMOL 256</b>	C12-15 Alkyl Benzoate
<b>PELEMOL 3G22</b>	Polyglyceryl-3 Behenate
<b>PELEMOL 6GPR</b>	Polyglyceryl-6 Polyricinoleate
<b>PELEMOL 89</b>	Ethylhexyl Isononanoate
<b>PELEMOL 899</b>	Isononyl Isononanoate Ethylhexyl Isononanoate
<b>PELEMOL BB</b>	Behenyl Behenate
<b>PELEMOL BIP-PC</b>	Butylphthalimide & Isopropylphthalimide
<b>PELEMOL C-150</b>	Bis(Trioctyldodecyl Citryl) Dilinoleate
<b>PELEMOL C25EH</b>	C12-15 Alkyl Ethylhexanoate
<b>PELEMOL CA</b>	Cetyl Acetate
<b>PELEMOL CCT</b>	Caprylic/Capric Triglyceride
<b>PELEMOL CL</b>	Cetyl Lactate
<b>PELEMOL CP</b>	Cetyl Palmitate
<b>PELEMOL CR</b>	Cetyl Ricinoleate
<b>PELEMOL D-2000</b>	PPG-2 Dimer Dilinoleate Copolymer
<b>PELEMOL D3GP</b>	Dimer Dilinoleyl Dimer Dilinoleate & Propanediol Dicaprylate/caprate & Polyglyceryl-3 Behenate
<b>PELEMOL D5R-1</b>	Ethylhexyl Isononanoate & Cetyl Dimethicone
<b>PELEMOL D5R-V</b>	Propanediol Dicaprylate/caprate & Diisostearyl Malate
<b>PELEMOL D-899</b>	PPG-26 Dimer Dilinoleate Copolymer & Isononyl Isononanoate
<b>PELEMOL D9336</b>	Diisopropyl Dimer Dilinoleate
<b>PELEMOL DD</b>	Dimmer Dilinoleyl Dimer Dilinoleate
<b>PELEMOL DIA</b>	Diisopropyl Adipate

<b>PELEMOL DIPS</b>	Diisopropyl Sebacate
<b>PELEMOL DISA</b>	Diisostearyl Adipate
<b>PELEMOL DISD</b>	Diisostearyl Dimer Dilinoleate
<b>PELEMOL DISM</b>	Diisostearyl Malate
<b>PELEMOL DISM-V</b>	Diisostearyl Malate
<b>PELEMOL DO</b>	Decyl Oleate
<b>PELEMOL DOA</b>	Diethylhexyl Adipate
<b>PELEMOL DOM</b>	Diethylhexyl Maleate
<b>PELEMOL DP-144B</b>	Dipentaerythryl Tetraabenate/ Polyhydroxystearate
<b>PELEMOL DP-72</b>	Dipentaerythryl Tetrahydroxystearate/ Isostearate
<b>PELEMOL EE</b>	Octyldodecyl Erucate
<b>PELEMOL G45L</b>	Glycereth-5 Lactate
<b>PELEMOL G7A</b>	Glycereth-7 Triacetate
<b>PELEMOL G7B</b>	Glycereth-7 Benzoate
<b>PELEMOL GMB</b>	Glyceryl Behenate
<b>PELEMOL GMR</b>	Glyceryl Ricinoleate
<b>PELEMOL GTB</b>	Tribehenin
<b>PELEMOL GTHS</b>	Trihydroxystearin
<b>PELEMOL GTIS</b>	Triisostearin
<b>PELEMOL GTO</b>	Triethylhexanoate
<b>PELEMOL HAB</b>	Dihydroabietyl Behenate
<b>PELEMOL HCO</b>	Hydrogenated Castor Oil
<b>PELEMOL I-1816</b>	Isostearyl Palmitate
<b>PELEMOL ICB</b>	Isocetyl Behenate
<b>PELEMOL ICIS</b>	Isocetyl Isostearate
<b>PELEMOL ICO</b>	Isocetyl Ethylhexanoate
<b>PELEMOL ICS</b>	Isocetyl Stearate
<b>PELEMOL IDO</b>	Isodecyl Oleate
<b>PELEMOL II</b>	Isostearyl Isostearate
<b>PELEMOL IN-2</b>	Isononyl Isononanoate
<b>PELEMOL IPM</b>	Isopropyl Myristate
<b>PELEMOL ISB</b>	Isostearyl Behenate
<b>PELEMOL ISHS</b>	Isostearyl Hydroxystearate
<b>PELEMOL ISL</b>	Isostearyl Lactate
<b>PELEMOL ISNP</b>	Isostearyl Neopentanoate
<b>PELEMOL JEC</b>	Triisostearin/Glyceryl Behenate
<b>PELEMOL LL</b>	Lauryl Lactate
<b>PELEMOL MAR</b>	Methyl Acetyl Ricinoleate
<b>PELEMOL ML</b>	Myristyl Lactate
<b>PELEMOL MM</b>	Myristyl Myristate
<b>PELEMOL MS</b>	Myristyl Stearate
<b>PELEMOL NGDO</b>	Neopentylglycol Diethylhexanoate
<b>PELEMOL NPGDD</b>	Neopentylglycol Dicaprate/ Dicaprylate
<b>PELEMOL ODR</b>	Octyldodecyl Ricinoleate
<b>PELEMOL ODSS</b>	Octyldodecyl Stearoyl Stearate
<b>PELEMOL OE</b>	Oleyl Erucate
<b>PELEMOL OL</b>	Oleyl Lactate
<b>PELEMOL OP</b>	Ethylhexyl Palmitate
<b>PELEMOL OPG</b>	Ethylhexyl Pelargonate
<b>PELEMOL OS</b>	Ethylhexyl Stearate
<b>PELEMOL P-1263</b>	Polyglyceryl-10 Hexaoleate & Polyglyceryl-6 Polyricinoleate
<b>PELEMOL P3D</b>	Dilinoic Acid/Propanediol Copolymer
<b>PELEMOL P-49</b>	Pentaerythryl Tetraisononanoate
<b>PELEMOL P-810</b>	Propanediol Dicaprylate/caprate
<b>PELEMOL PDD</b>	Propylene Glycol Dicaprylate/ Dicaprate
<b>PELEMOL PGDP</b>	Propylene Glycol Dipelargonate
<b>PELEMOL PHS-8</b>	Polyhydroxystearic Acid
<b>PELEMOL PTA</b>	Pentaerythryl Tetraacetate
<b>PELEMOL PTIS</b>	Pentaerythryl Tetraisostearate
<b>PELEMOL PTL</b>	Pentaerythryl Tetralaurate

<b>PELEMOL PTO</b>	Pentaerythryl Tetraethylhexanoate
<b>PELEMOL PTP</b>	Pentaerythryl Tetrapelargonate
<b>PELEMOL SPO</b>	Cetearyl Ethylhexanoate
<b>PELEMOL TDE</b>	Tridecyl Erucate
<b>PELEMOL TDTM</b>	Tridecyl Trimellitate
<b>PELEMOL TGC</b>	Trioctyldodecyl Citrate
<b>PELEMOL TISC</b>	Triisostearyl Citrate
<b>PELEMOL TMPIS</b>	Trimethylolpropane Triisostearate
<b>PELEMOL TMPO</b>	Trimethylolpropane Triethylhexanoate
<b>PELEMOL TOTM</b>	Triethylhexyl Trimellitate
<b>PELEMOL TT</b>	Tribehenin & Caprylic/Capric Triglyceride
<b>PELEMOL VL</b>	Dimer Dilinoleyl Dimer Dilinoleate & Triisostearin
<b>PHOENAMID 70 EXTRA</b>	Cocamide MEA
<b>PHOENAMID LMEA</b>	Lactamide MEA
<b>PHOENAMID LMM</b>	Lauramide MEA
<b>PHOENATE 150 DSA</b>	PEG-150 Distearate
<b>PHOENATE MO-8</b>	PEG-8 Oleate
<b>PHOENATE 3 DSA</b>	PEG-3 Distearate
<b>PHOENATE DL-4</b>	PEG-4 Dilaurate
<b>PHOENATE DL-8</b>	PEG-8 Dilaurate
<b>PHOENATE DO-8</b>	PEG-8 Dioleate
<b>PHOENATE GC-30</b>	PEG-30 Glyceryl Cocoate
<b>PHOENATE GC-7</b>	PEG-7 Glyceryl Cocoate
<b>PHOENATE MO-12</b>	PEG-12 Monooleate
<b>PHOENIX HSA</b>	12-Hydroxystearic Acid
<b>PHOENOMULSE 100</b>	Polyhydroxystearic acid & Isononyl Isononanoate & Ethylhexyl Isononanoate & Sodium Cocamidopropyl PG Dimonium Chloride Phosphate
<b>PHOENOMULSE CE-1</b>	Polyhydroxystearic acid & Isononyl Isononanoate & Ethylhexyl Isononanoate & Sodium Cocamidopropyl PG Dimonium Chloride Phosphate & Methyl Perfluorobutyl Ether & Methyl Perfluoroisobutyl Ether
<b>PHOENOTAIN E C-35</b>	Sodium Cocamidopropyl PG-Dimonium Chloride Phosphate
<b>PHOENOTAIN E D-35</b>	Sodium Diinoleamidopropyl PG-Dimonium Chloride Phosphate
<b>PHOENOXIDE NP-9</b>	Nonoxynol-9
<b>PHOENOXIDE CO-25</b>	PEG-25 Castor Oil
<b>PHOENOXIDE CO-40</b>	PEG-40 Castor Oil
<b>PHOENOXIDE CO-5</b>	PEG-5 Castor Oil
<b>PHOENOXIDE E-400</b>	PEG-400
<b>PHOENOXIDE HCO-16</b>	PEG-16 Hydrogenated Castor Oil
<b>PHOENOXIDE HCO-40</b>	PEG-40 Hydrogenated Castor Oil
<b>PHOENOXIDE NP-4</b>	Nonoxynol-4
<b>PHOENOXOL BD-10P</b>	PPG-10 Butanediol
<b>PHOENOXOL G-26</b>	Glycereth-26
<b>PHOENOXOL G-7</b>	Glycereth-7
<b>PHOENOXOL L-10</b>	Laureth-10
<b>PHOENOXOL L-2</b>	Laureth-2
<b>PHOENOXOL L-23</b>	Laureth-23
<b>PHOENOXOL L-4</b>	Laureth-4
<b>PHOENOXOL L-7</b>	Laureth-7
<b>PHOENOXOL L-9</b>	Laureth-9
<b>PHOENOXOL OL-10</b>	Oleth-10
<b>PHOENOXOL OL-3</b>	Oleth-3
<b>PHOENOXOL OL-5</b>	Oleth-5
<b>PHOENOXOL PW</b>	Cetearyl Alcohol Polysorbate 60
<b>PHOENOXOL STA-2</b>	Steareth-2
<b>PHOENOXOL STA-20</b>	Steareth-20
<b>PHOENOXOL STA-2050</b>	Steareth-20
<b>PHOENOXOL T</b>	Cetearyl Alcohol & Steareth-30 & Ceteth-10