

Advances In Green Strike Chemistry





Functional Specialties Innovative. Sustainable. Plant Derived.

When it comes to what types of natural cosmetic products that are in demand, those that are developed to provide specialized functional results are at the top of the list. Utilizing plant derived materials such as rapeseed, soy, castor, coconut, and corn, **Phoenix Chemical** continues to produce materials that deliver proven unique performance characteristics while focusing on sustainability and reducing environmental impact. These products can directly replace and improve upon petroleum based ingredients and provide cosmetics with a real functional edge.



Pelemol 3G22 (IINCI: Polyglyceryl-3 Behenate)

- 100% Active, 100% Vegetable Derived,
- Hydrophilic
- PEG/PPG Free Ester Self Emulsifying Properties
- Improves Rinse-Off Characteristics

• Excellent Water-in-Oil Emulsifier

- Broad Solubility Profile
- Melting Point 74°C

Pelemol 6GPR (INCI: Polyglyceryl-6 Polyricinoleate)

- 100% Active, Liquid, 100% Vegetable Derived, Polymeric Octapolyester
- Very Substantive to Skin, Lubricious and Glossy
- Functions as a Pigment Wetting and Dispersing Agent

PELEMOL 10GHO (INCI: Polyglyceryl - 10 Hexaoleate)

- Hexaester of Oleic Acid and Polyglceryl-10
- 100% Vegetable
- 100% Active

(INCI: Behenyl Behenate)

(INCI: Behenyl Erucate)

• 100% Vegetable Derived

Pelemol BB

- 100% Active. Oil Soluble Flake
- Melting Point 64-74°C

- Provides Richness While Building Viscosity with Low
 - Solid Levels
- Helps to Stabilize Emulsions

Occlusive Skin Conditioner

Useful in Lipsticks

Pelemol BE (

- 100% Vegetable Derived
- 100% Active Solid
- Low Melting Point 46°C

Pelemol CCC

(INCI: Coco-Caprylate/Caprate)

- 100% Vegetable Derived Liquid
- It is Clear, Non-Tacky
- RSPO Certified

Pelemol CP (INCI: Cetyl Palmitate)

- 100% Vegetable Derived
- Vegetable Replacement for Spermaceti Wax
- RSPO Certified

- Soft and Luxurious on Skin
- Emollient Nature Derives from its Fatty Straight Chain Structure
- Solid Ester That Provides Emolliency as well as Thickening Properties to Emulsions and Stick Products

Also Useful in Physical Sunscreen Dispersions of TiO₂/ZnO
Functional PEG/PPG Free Replacement for

Useful in Lipstick, Skin and Make-Up Products

 Functional PEGIPPG Free Replacement fr PEG-30 Dipolyhydroxystearate

lyglyceryl-6 Polyricinoleate)

Advances In Green Chemistru

- Contributes to Shine
- Water resistant
- REACH Registered



Pelemol CCT

(INCI: Caprylic /Capric Triglyceride)

- 100% Vegetable Derived Triester
- Short Chain Fatty Acid Triglyceride
- RSPO Certified

Pelemol CR (INCI: Cetyl Ricinoleate)

- 100% Vegetable Derived Ester
- Soft Paste That Melts at Skin Temperature
- Halal and Kosher Certified

Pelemol D3GP

Halal and Kosher Certified

Cosmetic Preparation

Useful in Color Cosmetics

- Light in Color, Low Viscosity
- Silky Smooth on Skin, Tack-Free

Polarity Broadens its Compatibility in

- RSPO Certified

- (INCI: Dimerdilinoleyl Dilinoleate & Propanediol Dicaprylate/Caprate & Polyglyceryl-3 Behenate)
- 100% Active, Amorphous Paste
- 100% Vegetable Dervived
- Functional Equivalent to Animal Based Mixed Cholesterol and Lanosterol Esters
- Mixed Esters for Lipstick Applications

- Biodegradable
- Melting Point 35°C, Easily Blendable in many Oil Phases
- All Components can be Described as Hypoallergenic
- RSPO Certified

Pelemol D5R-V (INCI: Propanediol Dicaprylate/Caprate & Diisostearyl Malate)

- 94% Vegetable Derived, 6% Synthetic, Replacement for Cyclomethicone D5
- Identical Flow, Spreadability, Initial Feel, Softness and Cushion on Rub-In that is Associated with Cyclomethicone D5
- Identical Solubility Characteristics to D5
- The Refractive Index Pelemol D5R-V (1.4435) vs. Cyclomethicone D5 (1.3895) Results in a more Glossy Appearance on Skin
- RSPO Certified

Pelemol DD

(INCI: Dimer Dilinololeyl Dimer Dilinoleate)

- 100% Active 100% Vegetable Derived
- Tasteless and Odorless
- Features High Gloss and Cushion

- Substantive and Occlusive
- Broad Solubility Profile

Pelemol DISD (INCI: Diisostearyl Dimer Dilinoleate)

- 100% Active, 100% Vegetable Derived
- Light Yellow Clear Liquid at Ambient Temperatures
- Extremely Emollient Diester
- Useful in Color Cosmetics

Pelemol DO (INCI: Decyl Oleate)

- 100% Active, 100% Vegetable Derived, Slightly Yellow Liquid Emollient
- Imparts Cushion Reducing Tack
- Solubilizer for Hair Dye Systems

Excellent Spreading Aid

Pelemol DP-144B

(INCI: Dipentaerythrityl Tetrabehenate/Polyhydroxystearate)

- 93% Vegetable Derived, 7% Synthetic
- Holds Three Times its Weight in Water
- Superior Lipstick Ester
- Provides Moisturization and Occlusive Humectancy

Pelemol EA (INCI: Ethyl Arganate)

- 100% Vegetable Derived
- Good wetting agent on skin

Pelemol EC (INCI: Ethyl Canolate)

- Clear, 100% Vegetable Derived
- Composed of ethyl esters of canola oil acids

Pelemol EE (INCI: Octyldodecyl Erucate)

- 100% Active, 100% Vegetable Derived Liquid Ester
- Very Low Viscosity

Pelemol GMB (INCI: Glyceryl Behenate)

- 100% Active, 100% Vegetable Derived Granule
- Improves Emulsion Stability and Gels Oils
- Builds Viscosity and Provides Richness
- Co-Emulsifier, PEG/PPG Free and Non-EO Based

Pelemol GMLA (INCI: Glyceryl Laurate)

- 100% Vegetable Derived
- Monoester of Glycerol and Lauric Acid
- Soluble in oils and most organic solvents

Pelemol GMR (INCI: Glyceryl Ricinoleate)

- 100% Active, 100% Vegetable Derived Clear Liquid to Pasty Product
- Halal and Kosher Certified
- Excellent Moisturizer and Skin Protectant

Pelemol GTB (INCI: Tribehenin)

- 100% Active 100% Vegetable Derived Triester
- Functions as an Emulsion Stabilizer

- Demolds Easily
- Tasteless and Odorless
- Increases Melting Point of Lipstick
- Self spreadable
- Extremely dry
- Exhibits a distinct silicone-like feel on skin
- Readily Absorbed into Skin
- Low HLB Emulsifier
- Broad Solubility Profile
- Melting Point 70°C
- Functions as a conditioner and an emulsifying agent
- RSPO Certified
- Water-In-Oil Emulsifier or Co-Emulsifier
- Refatting Agent
- RSPO Certified
- Builds Viscosity and Provides Richness
- Offered as a Hydrophobic, Granular Powder

- Clarity at Low Temperatures

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Pelemol GTHS

(INCI: Trihydroxystearin)

- 100% Vegetable Derived
- Off White Powder

- Effective Rheology Modifier
- Low Melting Point

Pelemol GTIS (INCI: Triisostearin)

- 100% Active, 100% Vegetable Dervived Liquid Triester
- Exhibits Excellent Cushion and is Uniquely Suited For Use in Lipstick Products
- Useful in Modifying Melting Points

- Leaves the Skin with a Lubricious and Glossy Appearance
- Exhibits Broad Solubility Properties
- Excellent Spreadability and Cushion

Pelemol II

(INCI: Isostearyl Isostearate)

- 100% Vegetable Derived, Clear Liquid
- Imparts Shine, Spreadability, and Emolliency
- Suitable for Color Cosmetics and Skin Products

Pelemol ISAO (INCI: Isostearyl Argan Glycerides)

- 100% Vegetable Derived
- Exhibits More Cushion and Spreadability than Argan Oil
- More Elegant than Argan Oil

Pelemol ISB (IINCI: Iso

(INCI: Isostearyl Behenate)

- 100% Active, 100% Vegetable Dervived Ester
- Melts at Skin Temperataure

Up Products

• Extremely Emollient and Effective as a Moisture Barrier

Provides Non-Greasy Conditioning in Hair, Skin and Make-

• Soft Opaque, Off White Paste at Ambient Temperatures

Pelemol ISHS

(INCI: Isostearyl Hydroxystearate)

- 100% Vegetable Derived
- Soft Solid to Flowable Paste
- Occlusive Emollient to Help Reduce Transepidermal Water Loss
- Melting Point 20-30°C
 - Suitable for Color Cosmetics

Provides Gloss in Lipsticks

Extremely Emollient

Pelemol JEC (INCI: Triisostearin and Glyceryl Behenate)

- 100% Vegetable Derived
- Effective Replacement for Petrolatum to which it has Identical Stability Characteristics
- Extremely Lubricious
- Soft Paste that Melts at Room Temperature

Pelemol MM (INCI: Myristyl Myristate)

- 100% Vegetable Derived from Palm Kernel Oil
- Melting Point, 41°C

Pelemol MOR-1

(INCI: Dilinoleic Acid / Propanediol Copolymer (and) Propanediol Dicaprylate/Dicaprate)

RSPO Certified

- 100% Vegetable Derived
- Comparative Properties to Drakeol 10LT Mineral Oil
- Mimics Solubility Characteristics, Viscosities, and Sensory Properties of Mineral Oil

Oil phase additive for improved emolliency

• REACH compliant

Pelemol MOR-3

(INCI: Dilinoleic Acid / Propanediol Copolymer (and) Propanediol Dicaprylate/Dicaprate)

- 100% Vegetable Derived
- Comparative Properties to Drakeol 600 Mineral Oil
- REACH compliant

• Mimics Solubility Characteristics, Viscosities, and Sensory Properties of Mineral Oil

Pelemol MOR-4 (INCI: Coco-Caprylate/Caprate (and) Dimer Dilinoleyl Dimer Dilinoleate)

- 100% Vegetable Derived
- Comparative Properties to Drakeol 10LT mineral oil
- RSPO Certified
- Chinese and REACH compliant

Pelemol MOR-5 (INCI: Coco-Caprylate/Caprate (and) Dimer Dilinoleyl Dimer Dilinoleate)

- 100% Vegetable Derived
- Comparative Properties to Drakeol 600 mineral oil
- Comparative Propert
 RSPO Certified
- Chinese and REACH compliant

Pelemol OE (INCI: Oleyi Erucate)

- 100% Vegetable Derived from Rapeseed
- Provides non-tacky film barrier on skin

and Sensory Properties of Mineral Oil

Mimics Solubility Characteristics, Viscosities,

Mimics Solubility Characteristics, Viscosities,

and Sensory Properties of Mineral Oil

Occlusive humectant

Pelemol OL (INCI: Oleyi Lactate)

- 100% Vegetable Derived
- Slightly Yellow Light Viscous Liquid
- RSPO Certified

- Provides a Soft, Supple, and Silky Feel to Skin
- Conditions Hair by Imparting Softness, Sheen and Manageability





Pelemol P3D (INCI: DilinoleicAcid/Propanediol Copolymer)

- 100% Vegetable Derived Polyester
- 100% Active, Slightly Yellow, Pourable Liquid
- Slightly Tacky, Substantive, Glossy

Pelemol P-99 💷

(INCI: Propanediol Dipelargonate)

- 100% Active Liquid
- 100% Vegetable Derived
- Easily Pourable, Clear, Water-White, Virtually Odorless
- Extremely Dry Emollient

Pelemol P-810

- (INCI: Propanediol Dicaprylate/Caprate)
- 100% Active, 100% Vegetable Derived
- Easily Pourable, Clear, Water White, Virtually Odorless Liquid
- Extremely Dry Emollient

Make-Up Products

Tasteless and Odorless

• All Vegetable Derived Replacement for Synthetically Derived Dry Esters

• Ideal for Lipsticks, Lip Balms and other Lip Products

Substitute for Dry Esters of Synthetic Origin

• Useful in Creams, Lotions, Fragrances and

RSPO Certified

Pelemol P-1263 (INCI: Polyglyceryl-10 Hexaoleate & Polyglyceryl-6 Polyricinoleate)

- A Versatile Polymeric Water-in-Oil Emulsifier for Creams and Lotions
- 100% Active, Easy to Handle Liquid, 100% Vegetable Derived Polyester
- Carefully Selected Structure Balanced Combination

Pelemol PHS-8 (INCI: Polyhydroxystearic Acid)

- 100% Active, 100% Vegetable Derived Liquid Polyester
- Viscous, Yellow Liquid with High Gloss
- Pigment Wetting and Grinding Agent
- Binds Water via Hydrogen Bonding for Conditioning and

• Excellent PEG/PPG Free Water-in-Oil Emulsifier

- Primarily a WIO Emulsifier: Suitable as a Co-Emulsifier with High HLB Emulsifiers for OIW Emulsions
- A PEG/PPG Free Replacement for PEG-30 Dipolyhydroxystearate

Humectancy

- Superior Liquid Crystal Emulsification Properties
- Halal and Kosher Certified

Pelemol SB (INCI: Stearyl Behenatel

- 100% Vegetable Derived
- 100% Active Oil Soluble Flake
- Melting Point, 63°C

- Provides richness while building viscosity
- Stabilizes emulsions

Pelemol SnO (INCI: Stearyl Caprylate)

100% Active, 100% Vegetable Derived

Melts on Skin Contact

Extremely Emollient

Pelemol SR-100 (INCI: Coco Caprylate /Caprate (and) Dimer Dilinoleyl Dimer Dilinoeate)

- 100% vegetable derived
- Ester replacement for Silicone Fluids
- Improved stability and higher refractive index
- REACH and China compliant
- No harmful solvents used during production
- Suitable for Ecocert and Comos certification

RSPO Certified

Pelemol SR-350

(INCI: Coco Caprylate /Caprate (and) Dimer Dilinoleyl Dimer Dilinoeate)

- 100% vegetable derived
- Ester replacement for Silicone Fluids
- Improved stability and higher refractive index
- RSPO Certified

REACH and China compliant No harmful solvents used during production

Suitable for Ecocert and Comos certification

Pelemol SR-1000

(INCI: Coco Caprylate /Caprate (and) Dimer Dilinoleyl Dimer Dilinoeate)

- 100% vegetable derived
- Ester replacement for Silicone Fluids
- Improved stability and higher refractive index
- RSPO Certified

- REACH and China compliant No harmful solvents used during production
- Suitable for Ecocert and Comos certification

• Strong properties for use in all lip products and as a

Pelemol SS

- 100% Vegetable Derived
- 100% Active Oil Soluble Flake
- Melting Point, 61°C

Pelemol T-91854

(INCI: Triisostearyl Trilinoleate)

- 100% vegetable derived
- Dark amber viscous liquid
- Tasteless

- Pelemol TEC (INCI: Triethyl Citrate)
- 100% Vegetable Derived from Molasses and Corn
- Silicone-like silkiness on skin

- Rubs to dryness
- Useful in fragrance and bath products



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- · Provides richness while building viscosity
 - Stabilizes emulsions

pigment dispersant

- (INCI: Stearyl Stearate)



Pelemol TT (INCI: Tribehenin and Caprylic/Capric Triglyceride)

- 100% Active, 100% Vegetable Derived
- Mimics Tactile Properties of Shea Butter
- RSPO Certified

Pelemol VL

(INCI: Dimer Dilinoleyl Dimer Dilinoleate and Triisostearin)

- 100% Vegetable Derived
- 100% Active, Liquid Mixed Ester

• Solubilities and Characteristics Provide an Excellent Replacement for Lanolin Oil

Butter-Like Lubriciousness and Spreadability

BIOGEL® Argan Butter (INCI: Hydrogenated Argania Spinosa Kernal Oil)

Melts at Skin Temperature

100% vegetable derived . Has a mild odor and excellent melting properties suitable for skin care. Argan Butter is also known to have inflammation reduction and anti-aging properties. Used in formulations to deliver intense moisturization, quick absorption and exquisite skin feel.

BIOGEL® Canola Butter (

(INCI: Hydrogenated Canola Butter)

- 100% vegetable based
- Off white soft paste
- Ideal emollient for skin conditioning

- Melt point 40° C
- Used as a diluent in soap bars containing higher cost oils such as argan butter

BIOGEL® Canola Butter/FH

- 100% vegetable based
- Derived from the rapeseed plant
- Ideal emollient for skin conditioning
- Off white hard flake

- Melt point 70°C

(INCI: Hydrogenated Canola Oil)

 Used as a diluent in soap bars containing higher cost oils such as argan butter

Derived from the rapeseed plant Canola Butter is used as an emollient for skin conditioning that has barrier repair and anti-inflammatory properties.

BIOGEL® Castor Oil/FH (INCI: Hydrogenated Castor Oil)

Fully hydrogenated castor oil

Solid flakes

BIOGEL® Moringa Butter

(INCI: Hydrogenated Moringa Oleifera Seed Oil)

Moringa Oil demonstrates a relatively high oxidative stability. Evidence exists for skin related applications such as treating topical wounds and skin conditions that require antibacterial activity. In Central American countries the moringa leaves are applied as a poultice on sores and seed oil externally for skin.

BIOGEL® Olive Butter (INCI: Hydrogenated Olive Oil)

Derived from olive oil and obtained from cold pressing followed by a full refining process. Olive Butter has slightly higher melting properties and better stability than shea butter. Exhibits excellent spread ability on the skin, making it ideal as a massage butter or body balm.

BIOGEL® VLHS

(INCI: Dimerdilinoleyl Dimer Dilinoleate (and) Triisostearin (and) Hydroxystearic Acid)

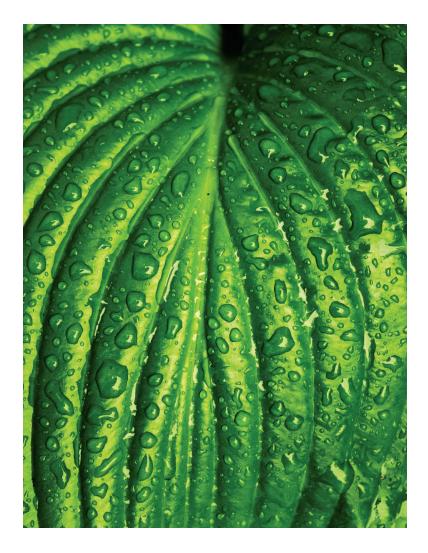
- 100% Vegetable Based
- Solid gel @ 30° C
- Melt point 42° C

 Useful in lip gloss, lip balms, lipstick, make-up, and skin products.

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01/29/19

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151 Industrial Parkway • Branchburg, NJ 08876 908.707.0232 • Fax 908.707.0186 • www.phoenix-chem.com