



Trends in **Alphabet Chemistry**





Trendy Alphabet Creams

These creams are all similar to tinted moisturizers; however these “magic remedies” combine effects of tinted creams with skin-nourishing benefits. Many formulas act as primers, anti-inflammatories, UVA/UVB protection, anti-aging serums, skin rejuvenators and tone-evening correctors. Each product provides different features and benefits.

AA = Anti-Acne Salicylic Gel

AA creams are fore front in combating facial acne. When bacteria gets trapped in the skins pores, it precedes to multiply. Topical acne treatments work by killing acne causing bacteria, dissolving excess oil and gently exfoliating away dead skin cells so healthy cells can grow. COSCAP G7-MC is the key component in solubilizing salicylic acid as the active in reducing redness and inflammation associated with acne.

BB = Beauty Balm or Beauty Blemish

BB creams are all-in-one face creams that replace the need for a separate serum, moisturizer, primer, foundation and sun block. They can be called concealers with skin care benefits. The obvious function is to combat blemishes usually offering light coverage. BB cream can also moisturize, contain anti-aging ingredients, and have UVA/UVB protection.

CC = Color Correction

Color correction creams use ingredients such as, magnesium ascorbyl phosphate and niacinamide to help reduce discoloration with regular use. CC creams usually provide all the benefits of BB creams, in addition to providing better coverage and a uniform color in a variety of shades, also helps to diminish fine lines and wrinkles. The CC variation is a lighter, fluffier texture and with a higher SPF. Skin care with color benefit in different skin tones that offer moisturizing as well as combating scars and blemishes.

DD = Daily Defense or Dynamic-Do-All

DD cream doesn't necessarily make your skin look perfect when you put it on; they were developed to deal with the tougher areas of your body, for example your feet. Kicking it up a level, they seem to be emerging as a heavy duty richer in texture cream to act as a perfect moisturizer for feet, knees, elbows and cracked heels. They promise to soften tough dry skin, provide help in reducing the appearance of stretch marks, and focus on skin discoloration. Many different functions are considered to make them stand out from their counterparts BB and CC creams. One can aim at sun defense and environmental stress using sun block, self-tanners, anti-oxidants, anti-inflammatories, vitamins, reducing body blemishes, all natural esters for moisturization, and occlusive esters for intensive moisturization.

EE = Early Elimination

EE Renewing products fall into the category of skin exfoliation. A clear gentle cleansing exfoliating scrub for clean and healthy looking skin and an extremely lubricious moisturizing exfoliating cream to invigorate, freshen and soften your skin.

HH = Healthy Heals / Healthy Hair

Skipping ahead in the alphabet to HH, the focus for HH is Healthy Heals for extreme moisturization for dry, cracked heels to bring your often neglected rough skin back to life. HH also focuses on Healthy Hair to moisturize and condition dry depleted hair.

ZZ = Night Cream

Moving on to the end of the alphabet, ZZ cream is a night cream that calms and soothes the skin as well as hydrates. It also features a blend of esters that provide excellent skin spreadability and a luxurious after feel.



Phoenix Chemical Inc. features many products that can be incorporated into these alphabet creams that alter and enhance the texture. These **PELEMOL® ESTERS** deliver a variety of esthetic properties including light and silky to lubricious and substantive.

Esters	INCI Names	Characteristics
Pelemol 168	Cetyl Ethylhexanoate	Very Light
Pelemol 899	Isononyl Isononanoate & Ethylhexyl Isononanoate	Light & cushiony
Pelemol BIP-PC	Butylphthalimide & Isopropylphthalimide	Dry-satiny slip
Pelemol C25EH	C12-15 Alkyl Ethylhexanoate	Light & dry
Pelemol CA	Cetyl Acetate	Light & lubricious
Pelemol DISA	Diisostearyl Adipate	Light
Pelemol DISD	Diisostearyl Dimer Dilinoleate	Substantive
Pelemol DISM	Diisostearyl Malate	Substantive
Pelemol EE	Octyldodecyl Erucate	Light & dry, with cushion
Pecosil G-5	Dimethicone/Phenyl Methicone/ Poly(C30-45 Olefin)	Dry & Silky
Pelemol G7A	Glycereth-7 Triacetate	Light & silky
Pelemol GTIS	Triisostearin	Lubricious
Pelemol GTO	Triethylhexanoin	Substantive
Pelemol ICB	Isocetyl Behenate	Lubricious
Pelemol MAR	Methyl Acetyl Ricinoleate	Light & dry
Pelemol NPGDD	Neopentylglycol/Dicaprate/Dicaprylate	Light
Pelemol ODL	Octyldodecyl Lactate	High cushion
Pelemol OL	Oleyl Lactate	Silky
Pelemol OP	Ethylhexyl Palmitate	Non-oily & soft
Pelemol P-99	Propanediol Dipelargonate	Dry
Pelemol P-810	Propanediol Dicaprylate/Caprata	Ultra dry
Pelemol TDE	Tridecyl Erucate	Substantive
Pelemol TMPIS	Trimethylolpropane Triisostearate	High cushion
Pelemol TMPO	Trimethylolpropane Triethylhexanoate	Med to light

Additional products at: www.phoenix-chem.com

Anti Acne (AA) Salicylic Gel ARL-24-1

INGREDIENT	INCI	SUPPLIER	%W/W
A Water	Water		78.78
B Keltrol T	Xanthan Gum	CP Kelco	0.95
B Gelcarin PC 379	Carrageenan	FMC Biopolymer	0.77
B Glycerin 99.5% USP	Glycerin	Dow Chemical	6.40
C Salicylic Acid ≥99%	Salicylic Acid	Sigma-Aldrich	2.00
C COSCAP® G7-MC	Glycereth-7 Trimethyl Ether	Phoenix Chemical, Inc.	10.30
D PECOGEL® H-12/A	VP/Polycarbamyl Polyglycol Ester	Phoenix Chemical, Inc.	0.80
E Preservative			q.s.
F 30% NaOH Solution			q.s.
TOTAL			100.00

PROCEDURE

In main kettle, add **Phase A** and begin mixing with prop mixer on medium speed. Pre-blend **Phase B** and add to **Phase A**, mixing well until batch is uniform and gums are swelled. In a separate beaker, combine **Phase C** and mix until clear with no particles remaining. Add **Phase C** to main batch, mixing until uniform. Do not aerate batch. Add **Phase D**, mix until uniform. Add **Phase E**, mix until uniform. Adjust pH to 4.0-4.75 with 30% NaOH, **Phase F**.

INGREDIENTS

FUNCTION

COSCAP® G7-MC

Salicylic acid solublizer and hydrolytically stable over a wide pH range. Reduces tackiness and leaves a silky emollience to the skin.

PECOGEL® H-12/A

Polymer which forms a flexible, non-tacky film when dry. It resists removal with water, keeping the active on the skin longer for better results.

Beauty Blemish (BB) Cream with SPF AX-47-332

INGREDIENT	INCI	SUPPLIER	%W/W
A Deionized Water	Water		45.95
B PHOENOXOL® BD-10P	PPG-10 Butanediol	Phoenix Chemical, Inc.	5.00
B Keltrol T	Xanthan Gum	CP Kelco	0.20
B Natrosol Plus 330 CS	Cetyl Hydroxyethylcellulose	Ashland	0.10
C Titanium Dioxide	Titanium Dioxide (CI 77891)	Sun Chemical	6.50
C Red Iron Oxide	Iron Oxides (CI 77491)	Sun Chemical	1.50
C Yellow Iron Oxide	Iron Oxides (CI 77492)	Sun Chemical	0.80
C Black Iron Oxide	Iron Oxides (CI 77499)	Sun Chemical	0.40
D Ronaflair Silk Mica	Mica	EMD Performance Materials/Rona	2.80
D Soft Touch CC6059 Boron Nitride Powder	Boron Nitride	Momentive Performance Materials	1.00
E Simulgreen 18-2	Hydroxystearyl Alcohol (and) Hydroxystearyl Glucoside	Seppic	1.50
E Montanov 202	Arachidyl Alcohol (and) Behenyl Alcohol (and) Arachidyl Glucoside	Seppic	1.50
E Cerasynt SD	Glyceryl Stearate	Ashland	0.25
E PELEMOL® 899	Isononyl Isononanoate (and) Ethylhexyl Isononanoate	Phoenix Chemical, Inc.	5.00
E PELEMOL® ICB	Isocetyl Behenate	Phoenix Chemical, Inc.	5.00
E PELEMOL® C25EH	C12-15 Alkyl Ethylhexanoate	Phoenix Chemical, Inc.	5.00
E Escalol HMS	Homosalate	Ashland	5.00
E Escalol 557	Octinoxate	Ashland	5.00
F Simulgel 600	Acrylamide/Sodium Acryloyldimethyl Taurate Copolymer (and) Isohexadecane (and) Polysorbate 80	Seppic	0.50
G Matrixyl Synthe'6	Glycerin (and) Aqua (and) Hydroxypropyl Cyclodextrin (and) Palmitoyl Tripeptide-38	Sederma	2.00
G Granactive ACNE	Aqua (and) Butylene Glycol (and) Oryza Sativa (Rice) Bran Extract (and) Boswellia Serrata Resin Extract (and) Honey Extract (and) Oligopeptide-10 (and) Phenoxyethanol (and) Sodium Benzoate	Grant Industries	5.00
G Preservative			q.s.
Total			100.00

Beauty Blemish (BB) Cream with SPF AX-47-332

PROCEDURE

In main kettle add **Phase A** and begin heating to 70°-75°C. Premix **Phase B** and add to main batch with mixing until gums are thoroughly swelled.

Combine **Phase C** and pulverize until uniform and particles are evenly distributed. Under homogenization, add pulverized **Phase C** to **Phase A/B** and mix batch is uniform and there are no undispersed pigments.

Add **Phase D** under homogenization and mix until uniform.

In a separate vessel, combine **Phase E** and heat to 70°-75°C. When temperatures of **Phase A/B/C/D** and **Phase E** are both at 70°-75°C, add **Phase E** into **Phase A/B/C/D** and homogenize 10 minutes.

Add **Phase F** and continue to homogenize for 10 minutes. Begin cooling batch to 40°-45°C.

When reduced temperature is reached, add **Phase F** and homogenize for 5 minutes. Switch to side sweep mixer and slow mix to 30°-35°C.

When reduced temperature is reached, add **Phase G** ingredients and continue to mix and cool batch to room temperature.

INGREDIENTS

FUNCTION

PHOENOXOL® BD-10P

Emollient that aids in reducing heaviness and any greasiness

PELEMOL® 899

Provides light cushion with a weightless feel, aids in spreadability

PELEMOL® ICB

Light silky ester

PELEMOL® C25EH

Adds a light, dry feel to the formulation

Color Correction (CC) Cream ARL-21-16-2

INGREDIENT	INCI	SUPPLIER	%W/W
A Deionized Water	Water		54.95
A Versene NA	Disodium EDTA	Dow Chemical	0.10
B Keltrol T	Xanthan Gum	CP Kelco	0.20
B Glycerin 99.5% USP	Glycerin	Dow Chemical	1.00
C Birch Extract M9534-WS	Water (and) Glycerin (and) Betula Alba Bark Extract	Carrubba	1.00
C Melfade PF	Water Arctostaphylos Uva Ursi (Bearberry Extract) (and) Glycerin (and) Magnesium Ascorbyl Phosphate	DSM Nutritional Products	3.00
C Simulgel INS-100	Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer (and) Isohexadecane (and) Polysorbate 60	Seppic	2.00
D PHOENOXOL® T	Cetearyl Alcohol (and) Steareth-30 (and) Ceteth-10	Phoenix Chemical, Inc	3.00
D Cerasynt SD	Glyceryl Stearate	Ashland	1.00
D PELEMOL® BB	Behenyl Behenate	Phoenix Chemical, Inc.	0.50
D INBP70U	Titanium Dioxide (and) Isononyl Isononanoate (and) Isopropyl Myristate (and) Stearalkonium Hectorite (and) Isopropyl Titanium Triisostearate (and) Propylene Carbonate (and) Polyhydroxystearic Acid	Kobo Products	7.15
D INBP55EY	Iron Oxides (and) Isononyl Isononanoate (and) Isopropyl Myristate (and) Stearalkonium Hectorite (and) Polyhydroxystearic Acid (and) Isopropyl Titanium Triisostearate (and) Propylene Carbonate	Kobo Products	0.55
D INBP75ER	Iron Oxides (and) Isononyl Isononanoate (and) Isopropyl Myristate (and) Stearalkonium Hectorite (and) Polyhydroxystearic Acid (and) Isopropyl Titanium Triisostearate (and) Propylene Carbonate	Kobo Products	0.11
D INBP75EB	Iron Oxides (and) Isononyl Isononanoate (and) Isopropyl Myristate (and) Stearalkonium Hectorite (and) Polyhydroxystearic Acid (and) Isopropyl Titanium Triisostearate (and) Propylene Carbonate	Kobo Products	0.04
D PELEMOL® DISA	Diisostearyl Adipate	Phoenix Chemical, Inc.	5.00
D PELEMOL® 899	Isononyl Isononanoate (and) Ethylhexyl Isononanoate	Phoenix Chemical, Inc.	8.00
E Deionized Water	Deionized Water		9.90
E Niacinamide PC	Niacinamide	DSM Nutritional Products	1.00
F Licorice-ECO	Glycerin (and) Water (and) Glycyrrhiza Glabra (Licorice) Root Extract	DSM Nutritional Products	1.50
G Preservative			q.s.
Total			100.00

Color Correction (CC) Cream ARL-21-16-2

PROCEDURE

In main kettle combine **Phase A** and begin heating to 70°-75°C, mixing slowly. Premix **Phase B** and add to main batch, mixing until gum is thoroughly swelled and batch is uniform. Add **Phase C** and mix until uniform. In a separate beaker, combine **Phase D** and begin heating to 70°-75°C with mixing until uniform throughout. When both **Phase A/B/C** and **Phase D** are at 70°-75°C, add **Phase D** to **Phase A/B/C** under homogenization for 10 minutes until batch is uniform and color is consistent. Switch to side sweep and begin cooling batch to 35°C. Premix **Phase E** and add to batch. Add **Phase F**, mixing until uniform. Add **Phase G**, mixing until uniform. Continue mixing and cooling until room temperature is reached.

INGREDIENTS

FUNCTION

PELEMOL® DISA	Non-oily emollient, with a soft, velvety feel on skin
PELEMOL® 899	Provides slight cushion with a light feel, aids in spreadability
PHOENOXOL® T	Emulsifier
PELEMOL® BB	Emulsion stabilizer, adds richness to formulation, viscosity modifier

Daily Defense (DD) Cream with SPF ARL-21-15-3

INGREDIENT	INCI	SUPPLIER	%W/W
A Deionized Water	Water		55.15
A Versene NA	Disodium EDTA	Dow Chemical	0.10
A Avocado Extract	Water (and) Glycerin (and) Persea Gratissima Fruit Extract	Carrubba	0.50
B Keltrol T	Xanthan Gum	CP Kelco	0.15
B Propylene Glycol, USP	Propylene Glycol	Univar Solutions	1.00
C Parsol 1789	Avobenzene	DSM Nutritional Products	3.00
C Escalol HMS	Homosalate	Ashland	5.00
C Escalol 587	Ethylhexyl Salicylate	Ashland	5.00
C Escalol 597	Octocylene	Ashland	2.60
C PELEMOL® 899	Isononyl Isononanoate (and) Ethylhexyl Isononanoate	Phoenix Chemical, Inc.	3.00
C PELEMOL® BIP-PC	Butylphthalimide (and) Isopropylphthalimide	Phoenix Chemical, Inc.	8.00
C PHOENOXOL® T	Cetearyl Alcohol (and) Steareth-30 (and) Ceteth-10	Phoenix Chemical, Inc.	3.50
C Crodacol C95	Cetyl Alcohol, NF (CE120)	Croda	1.00
D Deionized Water	Deionized Water		5.00
D Revitalin PF	Glycoproteins (and) Glutamic Acid (and) Valine (and) Threonine (and) Aqua (and) Phenoxyethanol (and) Ethylhexylglycerin (and) Sodium Metabisulfite	DSM Nutritional	3.00
D Elhibin PF	Glycine Soja (Soybean) Protein (and) Glycerin (and) Aqua (and) Disodium Cocoamphodiacetate (and) Sodium Dextran Sulfate (and) Valine (and) Glycine (and) Phenoxyethanol (and) Sodium Benzoate (and) Potassium Sorbate	DSM Nutritional	2.00
E Sepigel 305	Polyacrylamide (and) C13-14 Isoparaffin (and) Laureth-7	Seppic	2.00
F Preservative			q.s.
Total			100.00

PROCEDURE

In main kettle combine **Phase A** and begin heating to 70°-75°C, mixing slowly. Premix **Phase B** and add to main batch, mixing until gum is thoroughly swelled and batch is uniform. In a separate vessel under homogenization combine **Phase C** and heat to 70°-75°C. Homogenize **Phase C** for 3-4 minutes until uniform. When both **Phase A/B** and **Phase C** are at 75°C, add **Phase C** to **Phase A/B** and homogenize for 4-5 minutes. Switch to side sweep agitation and begin cooling to 35°C. Premix **Phase D** and add to main batch at 35°C, mixing until uniform. Add **Phase E** and continue mixing until homogenous. Add **Phase F** and continue to mix until homogenous. Cool to room temperature.

INGREDIENTS

FUNCTION

PELEMOL® BIP-PC	Solubilizer for sunscreens, leaves a satiny, smooth feel on skin
PELEMOL® 899	Provides a slight cushion with a light feel, aids in spreadability
PHOENOXOL® T	Emulsifier

Early Elimination (EE) Exfoliating Cream AX-47-499

INGREDIENT	INCI	SUPPLIER	%W/W
A Deionized Water			78.15
A PHOENOXOL® BD-10P	PPG-10 Butanediol	Phoenix Chemical, Inc.	4.00
A Niacinamide PC	Niacinamide	DSM Nutritional Products	1.00
B PHOENOXOL® BD-10P	PPG-10 Butanediol	Phoenix Chemical, Inc.	1.00
B Keltrol CG	Xanthan Gum	CP Kelco	0.15
B Natrosol Plus 330 CS	Cetyl Hydroxyethylcellulose	Ashland	0.05
C Simulgreen 18-2	Hydroxystearyl Alcohol (and) Hydroxystearyl Glucoside	Seppic	1.50
C Montanov 202	Arachidyl Alcohol (and) Behenyl Alcohol (and) Arachidyl Glucoside	Kobo Products	1.50
C Cerasynt SD	Glyceryl Stearate	Ashland	0.20
C Vitamin E Acetate	Tocopheryl Acetate	BASF	0.05
C Symrelief 100	Bisabolol (and) Zingiber Officinale (Ginger) Root Extract	Symrise	0.20
C BV-OSC	Tetrahexyldecyl Ascorbate	Barnet Products	0.20
C PELEMOL® P-99	Propanediol Dipelargonate	Phoenix Chemical, Inc.	2.00
C PELEMOL® TT	Tribehenin (and) Caprylic/Capric Triglyceride	Phoenix Chemical, Inc.	1.00
C PELEMOL® P-810	Propanediol Dicaprylate/Caprates	Phoenix Chemical, Inc.	2.00
C PELEMOL® C25EH	C12-15 Alkyl Ethylhexanoate	Phoenix Chemical, Inc.	2.00
D Sepinov EMT 10	Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer	Seppic	0.50
E Pro-Coll-One+	Hydrolyzed Soybean Fiber	Silab	1.00
E Moist 24	Imperata Cylindrica Root Extract (and) Aqua (and) Glycerin (and) PEG-8 (and) Carbomer	Sederma	1.00
E Vitagenyl	Prunus persica (Peach) Leaf Extract	Silab	1.00
E X-Pressin C	Aqua (and) Papain (and) Carbomer (and) 1,2-Hexanediol (and) Caprylyl Glycol (and) Algin	BASF	1.00
E Actiphyte of Yarrow GL	Glycerin (and) Water (and) Achillea Millefolium Extract	Active Organics	0.25
E Actiphyte of Blue Agave GL	Glycerin (and) Water (and) Agave Tequilana Leaf Extract	Active Organics	0.25
F Preservative			q.s.
Total			100.00

Early Elimination (EE) Exfoliating Cream AX-47-499

PROCEDURE

Combine **Phase A** with mixing and begin heating to 75°-80°C. Combine **Phase B** and add to main batch. Homogenize batch until gums have swelled and batch is uniform. In a separate beaker, combine **Phase C**, slow mix while heating to 75°-80°C. When the temperature of **Phase A/B** and **Phase C** are both at 75°-80°C, add **Phase C** to **Phase A/B**, increasing the homogenizer speed. Homogenize 15 minutes or until **Phase A/B/C** is uniform. Begin cooling batch to 60°-65°C. At 60°-65°C, add **Phase D** and homogenize 10 minutes until batch is uniform. Switch to side sweep, cool batch to 40°C. At 40°C, add **Phase E**, mixing thoroughly. Add **Phase F** and side sweep batch to room temperature.

INGREDIENTS

FUNCTION

PELEMOL® BD-10P	Reduces heaviness and any greasiness in the formulation and adds a light emolliency
PELEMOL® P-99	A clear, water-white emollient ester
PELEMOL® TT	Mimics the tactile properties of Shea Butter. Melts at skin temperature with smooth butter-like lubriciousness and spreadability
PELEMOL® P-810	A 100% vegetable derived clear, water-white emollient ester
PELEMOL® C25EH	Light, dry feeling emollient

Essential Exfoliating (EE) Cleansing Scrub AX-21-54-1

INGREDIENT	INCI	SUPPLIER	%W/W
A Deionized Water			41.7
A Versene NA	Disodium EDTA	Dow Chemical	0.05
A ColaTeric COAB	Cocamidopropyl Betaine	Colonial Chemical	8.00
A Bioterge AS-40	Sodium C14-16 Olefin Sulfonate	Stepan Company	15.00
A Stepan-Mild SL3-BA	Disodium Laureth Sulfosuccinate	Stepan Company	15.00
B PHOENOTAINE® C-35	Sodium Cocamidopropyl PG-Dimonium Chloride Phosphate	Phoenix Chemical, Inc.	5.00
B Amisoft CS-11	Sodium Cocoyl Glutamate	Ajinomoto	2.50
B PECOSIL® PAN-418	Steardimonium Hydroxypropyl Panthenyl PEG-7 Dimethicone Phosphate Chloride	Phoenix Chemical, Inc.	3.00
B PECOSIL® FDM-30	Perfluorononyl ethyl Carboxydecyl PEG-10 Dimethicone	Phoenix Chemical, Inc.	0.75
B PHOENOXIDE® HCO-40	PEG-40 Hydrogenated Castor Oil	Phoenix Chemical, Inc.	3.00
B Glutamate VLT Thickener	PEG-120 Methyl Glucose Trioleate (and) Propanediol	Lubrizol	2.00
C Actishell 9	Juglans Regia (Walnut) Shell Powder	Active Organics	2.00
C Dead Sea Salt Fine	Magnesium Chloride (and) Potassium Chloride (and) Sodium Chloride (and) Calcium Chloride	Charkit Chemical	2.00
D Preservative			q.s.
Total			100

PROCEDURE

Combine **Phase A** with slow mixing with U-bar until uniform. Do not aerate. Add **Phase B**, continue mixing. Add **Phase C**, mix until uniform. Add **Phase D**, mix until uniform.

INGREDIENTS

FUNCTION

PHOENOTAINE® C-35	Boosts foam volume and enhances viscosity
PECOSIL® PAN-418	Effective moisturizer which helps to reduce the scaling and cracking associated with dry skin.
PECOSIL® FDM-30	Extremely mild surfactant, conditioning agent
PHOENOXIDE® HCO-40	Light, water soluble emollient and emulsifier

Healthy Hair (HH) Treatment AX-47-500

INGREDIENT	INCI	SUPPLIER	%W/W
A Distilled Water	Water		69.00
A Tego Cosmo C 100	Creatine	Evonik	0.50
B PHOENOXOL® BD-10P	PPG-10 Butanediol	Phoenix Chemical, Inc.	1.50
C Glycerin 99.5% USP	Glycerin	Dow Chemical	2.50
C Keltrol CG	Xanthan Gum	CP Kelco	0.30
C Veegum regular	Magnesium Aluminum Silicate	RT Vanderbilt	0.20
D PELEMOL® C25 EH	C12-15 Alkyl Ethylhexanoate	Phoenix Chemical, Inc.	3.00
D PELEMOL® D5R-V	Propanediol Dicaprylate/Caprate (and) Diisostearyl Malate	Phoenix Chemical, Inc.	4.00
D PELEMOL® P-99	Propanediol Dipelargonate	Phoenix Chemical, Inc.	2.00
D PELEMOL® JEC	Triisostearin (and) Glyceryl Behenate	Phoenix Chemical, Inc.	1.00
D PELEMOL® II	Isostearyl Isostearate	Phoenix Chemical, Inc.	2.00
D PELEMOL® EE	Octyldodecyl Erucate	Phoenix Chemical, Inc.	0.50
D Arlancel 165	Glyceryl Stearate (and) PEG-100 Stearate	Croda	4.50
D Crodacol C95	Cetyl Alcohol	Croda	0.50
D Crodacol S95	Stearyl Alcohol	Croda	1.50
D Anti Aging Hair Complex	Crambe Abyssinica Seed Oil (and) Hydrogenated Polyisobutene (and) PEG-2 Dimeadowfoamamidoethylmonium Methosulfate (and) Olea Europaea (Olive) Oil Unsaponifiables	Elementis	2.00
E Sepigel 305	Polyacrylamide, C13-14 Isoparaffin, Laureth-7	Seppic	1.00
F Procapil	Butylene Glycol (and) Aqua (and) PPG-26-Buteth-26 (and) PEG-40 Hydrogenated Castor Oil (and) Apigenin (and) Oleanolic Acid (and) Biotinoyl Tripeptide-1	Sederma	1.50
F Amino Silk NPNF	Silk Amino Acids	TRI-K	1.00
F Heliogenol	Butylene Glycol (and) Helianthus Annuus (Sunflower) Seed Extract	Sederma	1.00
F Actiphyte of Nettle GL	Glycerin (and) Water (and) Urtica Dioica (Nettle) Extract	Active Organics	0.50
G Preservative			q.s.
Total			100.00

Healthy Hair (HH) Treatment AX-47-500

PROCEDURE

Under homogenization, in main vessel add **Phase A** ingredients and begin heating to 75°-80°C. As batch is heating, add **Phase B** and continue mixing. Premix **Phase C** and add to main batch, mixing until gums have swelled and batch is uniform. In a separate beaker, combine **Phase D** and begin mixing with heating to 75°-80°C. When the temperature of both **Phase A/B/C** and **Phase D** is at 75°-80°C, add **Phase D** to **Phase A/B/C**, increasing homogenizer speed. Homogenize for 10 minutes. Add **Phase E** and continue homogenizing for an additional 15 minutes. When batch is homogenous, switch to side sweep and begin cooling batch to 35°C. Once batch is at 35°C, begin adding **Phase F**, one at a time, until uniform. Add **Phase G** and mix until batch is thoroughly uniform.

INGREDIENTS

FUNCTION

PHOENOXOL® BD-10P	Reduces heaviness and any greasiness in the formulation and adds a light emolliency
PELEMOL® C25 EH	Adds a light, dry feel to the formulation
PELEMOL® D5R-V	Cyclomethicone(D-5)replacement. Mimics all properties and aesthetics. 100% vegetable derived.
PELEMOL® P-99	A 100% vegetable derived clear, water-white emollient ester
PELEMOL® JEC	Lubricious, soft paste which melts at skin temperature. Adds body and softness to the formulation
PELEMOL® II	Adds emolliency and aids in spreadability
PELEMOL® EE	Very emollient, dry ester

Natural Healthy Heals (HH) Cream ARL-21-55-1

INGREDIENT	INCI	SUPPLIER	%W/W
A Deionized Water			68.5
A Glycerin 99.5% USP	Glycerin	Dow Chemical	1.00
A Chamomile Extract M5932-WS	Glycerin (and) Water (and) Chamomilla Recutita (Matricaria) Flower Extract	Carrubba	1.00
B Gelcarin PC 370	Carrageenan	FMC BioPolymer	0.30
B Solagum AX	Acacia Senegal Gum (and) Xanthan Gum	Seppic	1.50
C Montanov 68	Cetearyl Alcohol (and) Cetearyl Glucoside	Seppic	1.50
C PELEMOL® GMLA	Glyceryl Laurate	Phoenix Chemical, Inc.	2.50
C PELEMOL® BB	Behenyl Behenate	Phoenix Chemical, Inc.	1.00
C PELEMOL® EE	Octyldodecyl Erucate	Phoenix Chemical, Inc.	5.00
C PELEMOL® II	Isostearyl Isostearate	Phoenix Chemical, Inc.	3.00
C PELEMOL® MOR-3	Propanediol Dicaprylate/Caprate (and) Dilinoleic Acid/Propanediol Copolymer	Phoenix Chemical, Inc.	8.00
C PELEMOL® DO	Decyl Oleate	Phoenix Chemical, Inc.	5.00
C PELEMOL® D5R-V	Propanediol Dicaprylate/Caprate (and) Diisostearyl Malate	Phoenix Chemical, Inc.	1.50
C Covitol 1100 C	Tocopheryl Acetate	BASF	0.20
D Preservative			q.s.
Total			100.00

PROCEDURE

In main vessel, combine **Phase A** with mixing and begin heating to 70°-75°C. Slowly add **Phase B** and mix with moderate agitation. Continue mixing until uniform and gums are hydrated. Combine all ingredients in **Phase C** and heat with mixing to 70°-75°C. When temperature is reached add **Phase C** to **Phase A/B** with vigorous mixing, maintaining 70°-75°C until emulsion is formed. Continue mixing while cooling to 35°C. At 35°C, add **Phase D** and mix until uniform. Homogenize emulsion for 5 minutes with moderate agitation. Continue mixing and cooling the batch to room temperature.

INGREDIENTS

FUNCTION

PELEMOL® GMLA	100% vegetable derived skin conditioner, emulsifier
PELEMOL® BB	Imparts richness and emolliency to formulation, builds viscosity
PELEMOL® EE	Very emollient dry ester
PELEMOL® II	Emollient ester, aids in spreadability of formulation
PELEMOL® MOR-3	100% vegetable derived Mineral Oil Replacement with near identical properties
PELEMOL® DO	Gives a cushiony feel, leaves skin soft and supple
PELEMOL® D5R-V	Cyclomethicone (D-5) replacement. Mimics all properties and aesthetics. 100% vegetable derived

Night (ZZ) Cream AX-47-501

INGREDIENT	INCI	SUPPLIER	%W/W
A Water	Water		64.60
A Niacinamide PC	Niacinamide	DSM Nutritional Products	1.00
B Zemea	Propanediol	DuPont Tate & Lyle Bio Products	2.50
B Keltrol CG	Xanthan Gum	CP Kelco	0.30
C Natrosol Plus 330 CS	Cetyl Hydroxyethylcellulose	Ashland	0.10
C Phoenoxol® BD-10P	PPG-10 Butanediol	Phoenix Chemical, Inc.	2.50
D Pecosil® G - 5	Dimethicone (and) Phenyl Methicone (and) C30-45 Olefin	Phoenix Chemical, Inc.	10.00
D PELEMOL® P-810	Propanediol Dicaprylate/Caprates	Phoenix Chemical, Inc.	6.50
D PELEMOL® TT	Tribehenin (and) Caprylic/Capric Triglyceride	Phoenix Chemical, Inc.	0.25
D PELEMOL® ODL	Octyldodecyl Lactate	Phoenix Chemical, Inc.	1.50
D PELEMOL® ODSS	Octyldodecyl Stearoyl Stearate	Phoenix Chemical, Inc.	0.50
D Revinage	Bidens Pilosa Extract (and) Elaeis Guineensis (Palm) Oil (and) Gossypium Herbaceum (Cotton) Seed Oil (and) Linum Usitatissimum (Linseed) Seed Oil	Chemunion	1.00
D Juvinity	Caprylic/Capric Triglyceride (and) Geranylgeranylpropanol	Sederma	2.00
D Simulgreen 18-2	Hydroxystearyl Alcohol (and) Hydroxystearyl Glucoside	Seppic	1.50
D PELEMOL® GMLA	Glyceryl Laurate	Phoenix Chemical, Inc.	0.50
D Crodacol C95	Cetyl Alcohol	Croda	1.00
D Montanov 202	Arachidyl Alcohol (and) Behenyl Alcohol (and) Arachidyl Glucoside	Seppic	0.50
D Actiphyte of Bee Pollen Lipo S	Carthamus Tinctorius (Safflower) Seed Oil (and) Pollen Extract	Active Organics	0.25
E Sepinov EMT-10	Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer	Seppic	0.50
F Dyalift	Aqua (and) Sodium Polystyrene Sulfonate (and) Sorghum Bicolor Stalk Juice (and) Glycerin	Sederma	2.00
F Actiphyte Of Ivy GL	Glycerin (and) Water (and) Hedera Helix (Ivy) Extract	Active Organics	0.25
F Actiphyte of Autolyzed Yeast GL	Glycerin (and) Water (and) Yeast Extract	Active Organics	0.25
F Actiphyte of Marshmallow GL	Glycerin (and) Water (and) Althaea Officinalis Root Extract	Active Organics	0.25
F Actiphyte of Calendula GL	Glycerin (and) Water (and) Calendula Officinalis Flower Extract	Active Organics	0.25
G Preservative			q.s.
Total			100.00

Night (ZZ) Cream AX-47-501

PROCEDURE

In main vessel, combine **Phase A** and begin heating to 70°-75°C while homogenizing on low speed. Premix **Phase B** and add to batch, mixing until batch is uniform and gums are swelled. Add **Phase C** and add to batch, mixing until uniform. In a separate beaker combine **Phase D** and while mixing heat to 70°-75°C. When the temperature of both **Phase A/B/C** and **Phase D** are at 70°-75°C, add **Phase D** to **Phase A/B/C** and homogenize for 10 minutes. Add **Phase E** to the batch, increase the homogenizer speed and continue homogenizing for 10 minutes. Begin cooling batch to 55°-60°C. Switch to side sweep mixing and add **Phase F**. Continue to cool to 35°-40°C. Add **Phase G** and cool to room temperature while mixing until homogenous.

INGREDIENTS

FUNCTION

Phoenoxol® BD-10P	Adds high level of emolliency and reduces any potential greasiness of the formula
Pecosil® G - 5	Silicone gel with superior lubricity. Tack-free, leaves skin soft and satiny
PELEMOL® P-810	100% vegetable derived dry ester. Helps reduce tack in finished formulation
PELEMOL® TT	Mimics the tactile properties of Shea
PELEMOL® ODL	Butter. Melts at skin temperature with smooth butter-like lubriciousness and spreadability
PELEMOL® ODSS	Adds high level of cushion, emolliency and moisturization
PELEMOL® ODSS	A light, emollient ester which helps with spreadability and gives a luxurious after-feel on skin
PELEMOL® GMLA	100% vegetable derived skin conditioner, emulsifier

08/21/19

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