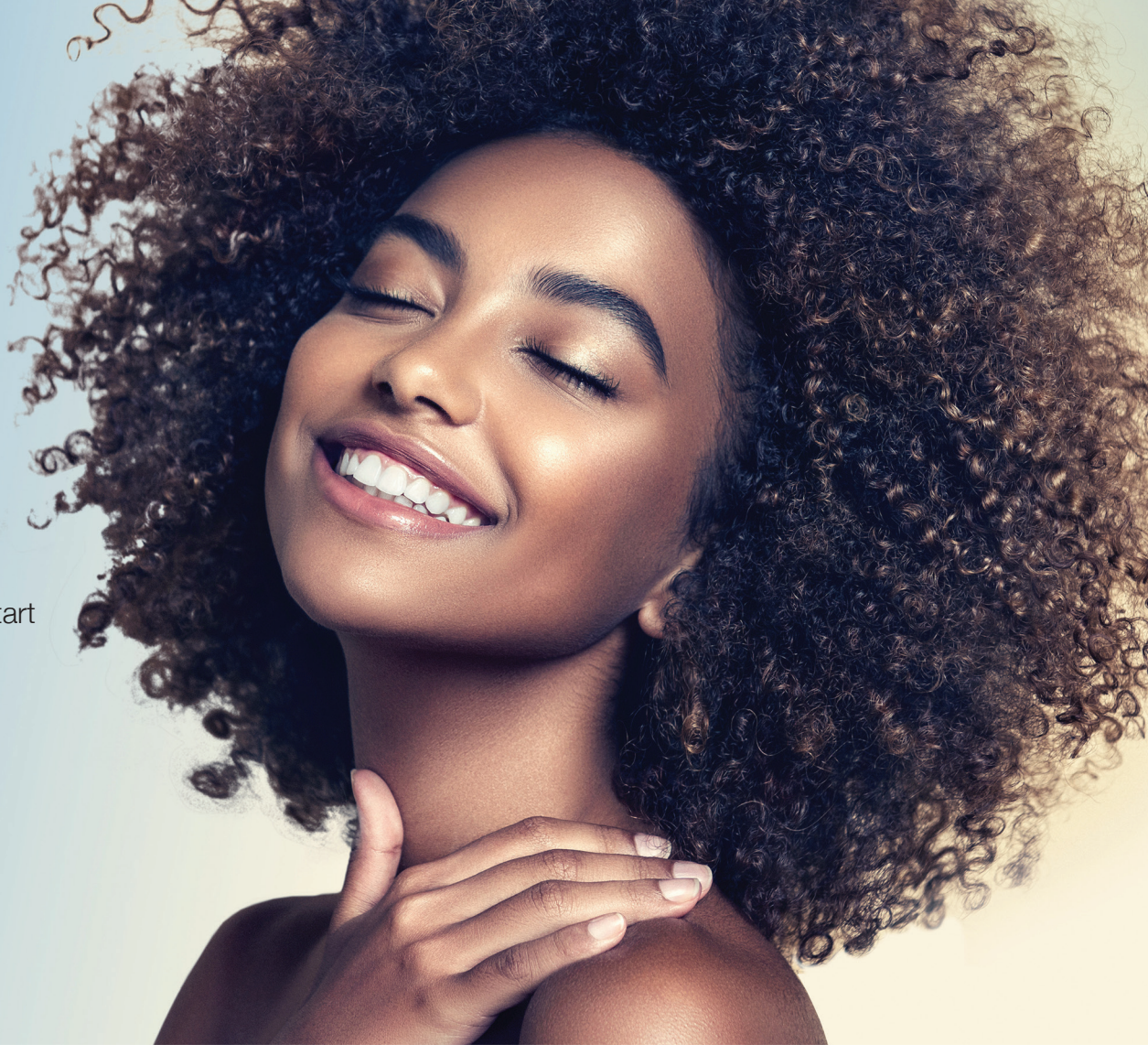
GlyAcid®

GLYCOLIC ACID

FORMALDEHYDE FREE

Starter Formulations

More than 65 GlyAcid® formulation ideas to jump start your unique scalp hair, skin and nail care products



CROSSCHEM

Pure Chemistry

For more than 45 years, glycolic acid has been predominantly produced by either the carbonylation of formaldehyde or with glycolonitrile as a starting material. Most formulators would prefer an alternative choice. CrossChem's GlyAcid® is a next-generation, high purity glycolic acid produced with a proprietary acid saponification and purification process. GlyAcid® does not use formaldehyde while delivering a high purity alpha hydroxy acid in 70% solution and 99% crystalline.

GlyAcid® Formulation Ideas

Glycolic acid use in personal care formulations continues to grow globally as a proven anti-aging ingredient. Increasing research and understanding of glycolic acid as an effective cross-linker of damaged hydrogen bonds in keratin demonstrates an exciting opportunity within hair care.

In cooperation with our global distribution partners CrossChem is providing over 70 GlyAcid® starting formulas to assist with your own unique hair, skin, scalp and nail care products.

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Hair & Scalp Care

Skin Care

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Hair & Scalp Care

PRETTY-IN-PLACE HAIR GLUE

This high-powered formulation is serious about keeping hair in place without leaving the crunch of hair gel. The product adheres to the hair for a smooth, conditioning effect. **Endicare® DP-530S** forms an immediate film without compromising shine or feel. **GlyAcid®** helps improve the appearance of hair growth and manageability.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	66.47
Endicare® DP-530S[1]	Polyethyloxazoline	10.00
GlyAcid® 70 HP[1,2]	Glycolic Acid	2.00
Conditioner P7NA[1,3]	Polyquaternium-7	4.50
DL-Panthenol 50%[1]	Panthenol	1.00
Phase B		
Moringa Seed Oil[1,4]	Moringa Oleifera Seed Oil	2.00
Jojoba Oil[1]	Simmondsia Chinesis (Jojoba) Seed Oil	2.00
Endimate®IPP[1]	Isopropyl Palmitate	3.00
Endimate®IPM[1]	Isopropyl Myristate	2.00
Endicare CT IPP[1]	Cetearyl Alcohol (and) Centrimonium Bromide	6.00
Phase C		
Sharomix HMG[1,5]	Sodium Hydroxymethyl Glycinate	0.80
Phase D		
NaOH 0.5 N	Sodium Hydroxide	0.23

Procedure

Phase A: Add Phase A in order to main vessel under shear mixing and begin heating to 167-176°F (75-80°C). **Phase B:** Add Phase B to separate vessel under shear mixing and heat to 167-176°F (75-80°C). Once uniform and to temperature, add to main vessel under shear mixing. Begin cool down. **Phase C:** Once at 104-113°F (40-45°C), add Phase C to Phase AB under shear mixing. **Phase D:** Add Phase D to Phase ABC under shear mixing for pH. Q.s. Phase D to desired pH. Once uniform, transfer to final container.

Suppliers

[1]**Coast Southwest, Inc.,** [2]**CrossChem,** [3]3V, [4]Vivimed Labs USA, [5]Sharon Laboratories, Ltd.

Properties

pH: 3.70 to 4.50

Viscosity: Spindle 4 at 30.0 rpm = 3,000.0-6,000.0 cst.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

HOLD YOUR HAIR FROM HERE TO THERE TO EVERYWHERE

This flexible styling hair gel containing **Endicare® DP-530S** provides extra-firm holding power for use on wet or dry hair, while allowing versatility in styling for control. Enriched with Green Tea, this flake-free gel builds body and shine, while **GlyAcid®** improves the protection and manageability of hair by maintaining moisture and preventing breakage. The formula conditions the hair without sacrificing maximum hold.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	61.60
Synthalen® W-2000[1,2]	Acrylates/Palmeth-25 (and) Acrylate Copolymer	9.00
Dissolvine® 100-S[1,3]	Tetrasodium EDTA	0.10
DL-Panthenol 50%[1]	Panthenol	0.50
Glycerin[1]	Glycerin	1.50
Propylene Glycol[1]	Propylene Glycol	2.00
Endicare® DP-530S[1]	Polyethyloxazoline	17.00
Endisil® FS-193[1]	PEG-12 Dimethicone	3.00
Phase B		
GlyAcid® 70 HP[1,4]	Glycolic Acid	2.00
NaOH (40% aq.)	Sodium Hydroxide	1.20
Phase C		
Conditioner P7NA[1,2]	Polyquaternium-7	0.10
Green Tea Concentrate[1,5]	Water (and) Camellia Sinensis (Green Tea)	1.00
Sharomix CPA[1,2]	Phenethyl Alcohol (and) Capryl Glycol	1.00

Procedure

Phase A: Combine Phase A in formula order while mixing with propeller agitator until fully uniform.
Phase B: In a separate vessel, combine Phase B in formula order while continuously mixing and add to Phase A. Mix until well-blended and evenly dispersed. **Phase C:** Add Phase C in formula order to batch AB while continuously mixing. Transfer into final container once uniform.

Suppliers

[1]**Coast Southwest, Inc.,** [2]3V Inc., [3]AkzoNobel Functional Chemicals LLC, [4]**CrossChem,** [5]Tea Guys, [6]Sharon Laboratories Ltd.

Properties

pH: 6-6.5

Viscosity: Spindle 4 at 6.0 rpm = 20,000 - 25,000 cst.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

GLYCOLIC ACID SHAMPOO CSW

This moisturizing shampoo offers the benefits of glycolic acid, enhancing the protection and manageability of hair and making hair easier to style.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	61.95
Glycerin 99.7% USP Kosher[1]	Glycerin	4.00
Dissolvine® GL-47-S[1,2]	Tetrasodium Glutamate Diacetate	0.20
Sorbitol 70%	Sorbitol	4.00
Synthalen® W400[1,3]	Acrylates Copolymer	10.00
Phase B		
Endinol® MILD SFB-105K[1]	Disodium Laureth Sulfosuccinate (and) Sodium Cocoyl Isethionate (and) Cocamidopropyl Betaine	10.00
Endicare® LI-7[1]	PEG-7 Glyceryl Cocoate	5.00
Phase C		
GlyAcid 70 HP[1,4]	Glycolic Acid	1.40
Sodium Hydroxide (0.5M)	Sodium Hydroxide	2.00
Phase D		
Sharon 702[1,5]	(Dehydroacetic Acid (and) Benzoic Acid (and) Phenoxyethanol)	1.00
Phase E		
Endimox™ CAW[1]	Cocamidopropylamine Oxide	0.25
Fragrance		0.20

Procedure

Phase A: In main vessel, add Phase A. Mix until uniform. **Phase B:** Add Phase B to Phase A. **Phase C:** In side vessel, combine Phase C, then add slowly to Phase AB. **Phase D:** Add preservative to Phase ABC. Intially the batch will be discontinuous. Continue mixing. **Phase E:** Slowly add the surfactant to Phase ABCD. Initially the batch will become uniform and increase in viscosity. Add fragrance.

Suppliers

[1]**Coast Southwest, Inc.,** [2]Akzo Nobel Functional Chemicals LLC, [3]V Sigma-USA, [4]**CrossChem**, [5]Sharon Laboratories Ltd.

Properties

pH: 6.83

Viscosity: Spindle 5 @ 20 rpm = 8,100 cst.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

EASE WITHOUT GREASE BEARD FLUID

This beard fluid is absorbed quickly by the hair and skin while not feeling greasy thanks to **BergaCare FG 5**. **BergaSom Sun 75 H** and **BergaCare SB** provides care and protection, while **GlyAcid® 70 HP** reorders the hair cuticle leading to a more glossy and radiant appearance.

Phase A	INCI Name	% (w/w)
Demineralized Water	Aqua	≤ 100.00
BergaSom Sun 75 H[1]	Hydrogenated Lecithin	0.50
Butylene Glycol	Butylene Glycol	2.00
Allantoin	Allantoin	0.10
Phase B		
BergaCare EM-AB[1]	C12-15 Alkyl Benzoate	2.00
BergaCare FG 5[1]	Ethylhexyl Palmitate (and) Ethylhexyl Stearate (and) Hydrogenated Olive Oil Unsaponifiables (and) Caprylic Capric Triglyceride	5.00
BergaCare SB[1]	Butyrospermum Parkii (Shea) Butter	2.00
Agenaflo 9050[2]	Corn Starch Modified	2.00
Apricot Kernel Oil	Prunus Armeniaca (Apricot) Kernel Oil	2.00
Glyceryl Stearate Citrate	Glyceryl Stearate Citrate	1.00
Jojoba Oil	Simmondsia Chinensis (Jojoba) Seed Oil	1.00
Phase C		
D-Panthenol	Panthenol	1.00
Phase D		
GlyAcid® 70 HP[3]	Glycolic Acid (and) Water	2.50
Demineralized Water	Aqua	5.00
Phase E		
NaOH	Sodium Hydroxide	Adjust pH
Preservative/Fragrance	-	q.s.

Procedure

Weigh water and Butylene Glycol, start stirring and add BergaSom Sun 75 H and Allantoin. Weigh Phase B, heat both phases up to ~70°C. Add **Phase B to A** while stirring and homogenize 30 seconds and add Panthenol. Mix GlyAcid® with water and add slowly under mixing, adjust pH and preserve.

Suppliers

[1]**Berg + Schmidt,** [2]Agrana, [3]**CrossChem** distributed by Berg + Schmidt

Properties

pH: 4

Viscosity: (24H) 1430

Internal Ref: Beard Fluid-002-BSC

FORMULATION PROVIDED BY:

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For more information, contact **berg-schmidt.de**

CREATE AND SHAPE HAIR CREAM

Create and shape great hair looks with this curl enhancer or styling cream, which leaves a natural and fresh look for hair styling without the crunch and weighted down appearance.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	58.60
Dissolvine® GL-47-S	Tetrasodium Glutamate Diacetate	0.30
GlyAcid® 70HP[1,2]	Glycolic Acid (and) Aqua	1.50
Olivatis™ 15[1,3]	Olive Oil Glycereth-8 Esters	1.50
Endicare® DP-530S[1]	Polyethyloxazoline	8.00
Phase B		
Endimate® 33V[1]	Capric/Caprylic Triglyceride	5.00
Moringa Seed Oil[1,4]	Moringa Oleifera (Moringa) Seed Oil	2.00
Endicare® CT-100[1]	Cetearyl Alcohol (and) Cetrimonium Bromide	3.00
Palmitic Acid[1]	Palmitic Acid	6.00
Olivatis™ 18[1,3] Cetearyl Alcohol	Olive Oil Polyglyceryl-6 Esters (and) Sodium Stearoyl Lactylate (and)	2.00
Olivatis™ 19[1,3]	Olive Oil Polyglyceryl-6 Esters (and) Phospholipids	1.00
Stearic Acid[1]	Stearic Acid	4.00
Myristic Acid[1]	Myristic Acid	3.00
Endimulse® CS20-D[1]	Cetyl Stearyl Alcohol (and) Ceteareth-20	3.50
Phase C		
Sharomix HMG[1,5]	Sodium Hydroxymethyl Glycinate	0.60
Phase D		
NaOH 0.5N	Sodium Hydroxide	q.s.

Procedure

Phase A: Add Phase A to main vessel under shear mixing and heat to 167°F to 176°F (75°C to 80°C). **Phase B:** Add Phase B in separate vessel under shear mixing and heat to 167°F to 176°F (75°C to 80°C). Once both vessels are at temperature, add Phase B to main vessel slowly under high shear. Begin cool down. **Phase C:** Add Phase C to Phase AB under continued shear mixing when main vessel has cooled to 104°F to 113°F (40°C to 45°C). **Phase D:** Q.s. Phase D into Phase ABC under shear mixing to desired pH between the range of 5.5 to 6.1. Once Phase ABCD has cooled below 86°F (30°C), transfer to final container.

Suppliers

[1]**Coast Southwest, Inc.,** [2]**CrossChem,** [3]Medolla Limited, [4]ICSC International Cosmetic Science Centre, [5]Sharon Laboratories, Ltd.

Properties

pH: 5.5 – 6.1

Viscosity: Spindle 5.0 @ 5.0 rpm = 65,000 - 75,000 cst.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

GENTLE TOUCH GLYCOLIC ACID SHAMPOO

This shampoo with **GlyAcid® 70 HP,** the global standard in high-purity glycolic acid, helps remove oil and residue from hair and scalp. Exfoliation encourages better, healthier hair. Gentle surfactants provide loose-to-dense foam and cleansing without stripping or excessively drying out hair or scalp.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	48.70
Glycerin[1]	Glycerin	4.00
Endiquest® GLDA[1]	Tetrasodium Glutamate Diacetate	0.20
Synthalen® W2000[1,2]	Acrylates/Palmeth-25 Acrylates Copolymer	5.00
Phase B		
DI Water	Aqua	48.70
GlyAcid® 70 HP[1,3]	Glycolic Acid (and) Water	2.5
NaOH 30% aq w/w	Sodium Hydroxide	q.s.
Phase C		
Endinol® MILD B-Q18[1]	Decyl Glucoside (and) Cocamidopropyl Hydroxysultaine (and) Cocoamidopropyl Betaine (and) Cocamide MIPA (and) Disodium Laureth Sulfosuccinate (and) Disodium Lauryl Sulfosuccinate	20.00
GlucoTain® Clear[1]	Capryloyl/Caproyl Methyl Clucamide	5.00
Endinol® B-MEVK[1]	Sodium Laureth Sulfate (and) Cocamide MEA (and) Cocoamidopropyl Betaine	5.00
Phase D		
NaOH 30% aq w/w	Sodium Hydroxide	q.s.
Phase E		
Sharomix® Amplify AM-24[1,4]	Caprylyl Glycol (and) Methylpropanediol (and) Didecyldimonium Chloride (and) Polyquaternium-80	0.50

Procedure

Phase A: In main vessel, ad and mix phase A until uniform. **Phase B:** Mix phase B in separate vessel and adjust pH to 4.2 using sodium hydroxide. Phase B temperature will increase. Allow phase B to cool to room temperature. Add phase B to phase A. **Phase C:** In a separate vessel, mix phase C until uniform then add to phase AB with slow mixing. **Phase D:** Add phase D slowly to phase ABC until the pH reaches 5.5 to 6.0. As phase D is added to phase ABC, the mixture will thicken and become more transparent. **Phase E:** Add phase E, mix slowly. Transfer to holding vessel.

Suppliers

[1]**Coast Southwest, Inc.**, [2]3V Sigma-USA, [3]**CrossChem**, [4]Sharon Laboratories Ltd.

Properties

pH: 5.5 to 6.5

Viscosity: Spindle 3 @ 5 rpm = 15,000 to 20,000 cst

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

REPLENISHING SHAMPOO FOR STRESSED HAIR

This shampoo helps your hair recover from environmental stress as **GlyAcid® 70HP** repairs the hair cortex while smoothing the hair surface for easier combing and increased protection from moisture pick-up.

Phase A	INCI Name	% (w/w)
Demineralized Water	Aqua	≤ 100.00
EDTA	Tetrasodium EDTA	0.10
Acrylodimethyltaurate/VP Copolymer	Acrylodimethyltaurate/VP Copolymer	1.00
Glycerin 99.5%	Glycerin	5.00
Phase B		
BergaSoft SCI 80[1]	Sodium Cocyl Isethionate	10.00
BergaCare Pearl 2[1]	Glycol Distearate	2.00
Cocamide DEA	Cocamide DEA	2.00
Phase C		
BergaCare EM-HE7[1]	PEG-7 Glyceryl Cocoate	3.00
Laureth-4	Laureth-4	2.00
Cocamidopropyl Betaine 30%	Cocamidopropyl Betaine	6.00
Phase D		
GlyAcid® 70 HP[2]	Glycolic Acid (and) Aqua	2.50
NaOH 25%	Sodium Hydroxide	Adjust pH ~4
Phase E		
Preservative/Fragrance	–	q.s.

Procedure

Phase A: Weigh water, glycerin and add copolymer and EDTA while stirring until homogeneous. **Phase B:** Add all raw materials and heat up to 75°C. **Phase C:** Add raw material and cool to 40°C. **Phase D:** Add GlyAcid® 70 HP while stirring. **Phase E:** Adjust pH and preservative.

Suppliers

[1]**Berg + Schmidt,** [2]**CrossChem** distributed by Berg + Schmidt

Properties

Note: For optimal effectiveness of GlyAcid®, we recommend working with a pH between 3.8 and 4.3

pH: 4

Viscosity: (24H) = na

Internal Ref: Gly Sh-007-BSC

FORMULATION PROVIDED BY:

Berg+Schmidt
Care Ingredients
Our knowledge. Your formulations.

For more information, contact **berg-schmidt.de**

FIRST AID SHAMPOO TREATMENT

This mild shampoo provides instant and intense care to the hair – inside and outside. A completely new approach to provide extensive and comprehensive hair care to fix hair structure damage from daily handling.

Phase A	INCI Name	% (w/w)
Demineralized Water	Aqua	≤ 100.00
Carbopol Aqua SF-1[3]	Acrylates Copolymer	5.00
NaOH 25%	Sodium Hydroxide	adjust to pH ~8
Phase B		
BergaSoft SCI 80[1]	Sodium Cocoyl Isethionate	10.00
Glycerin 99.5	Glycerin	2.00
EDTA	Tetrasodium EDTA	0.20
Sorbitol 70%	Sorbitol	4.00
Phase C		
BergaSoft LG 50[1]	Lauryl Glucoside	5.00
BergaCare EM-HE7[1]	PEG-7 Glyceryl Cocoate	3.00
Cocamidopropyl Betaine 30%	Cocamidopropyl Betaine	8.00
Phase D		
GlyAcid® 70 HP[2]	Glycolic Acid (and) Aqua	4.00
NaOH Solution 25%	Sodium Hydroxide	adjust pH ~4
Phase E		
PCA Glyceryl Oleate	PCA Glyceryl Oleate	0.50
Silk Protein	Aqua, Hydrolyzed Silk, Potassium Sorbate	2.00
Phase F		
Preservative/Fragrance	–	q.s.

Procedure

Phase A: Weigh water and Carbopol Aqua, start stirrer and add NaOH until clear with pH ~8. **Phase B:** Add raw materials and heat to ~70°C. **Phase C:** Once fully dissolved, add materials and cool to 40°C while stirring. **Phase D:** Add GlyAcid® and NaOH and wait five minutes, then add **Phase E.** Preserve and adjust pH

Suppliers

[1]**Berg + Schmidt,** [2]**CrossChem** distributed by Berg + Schmidt. [3]Lubrizol

Properties

Note: For optimal effectiveness of GlyAcid®, we recommend working with a pH between 3.8 and 4.3

pH: ~4

Viscosity: (24H) = na

FORMULATION PROVIDED BY:

Berg+Schmidt
Care Ingredients
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SHEER SHINE CONDITIONER FOR BRILLIANT APPEARANCE

A smooth and supple hair surface is essential for a vibrant and glossy hair appearance. The hair conditioner below will significantly improve the hair surface condition, provide shine and enhance manageability of the hair due to the powerful action of **GlyAcid® 70 HP.**

Phase A	INCI Name	% (w/w)
Demineralized Water	Aqua	≤ 100.00
BergaCare FG 5[1]	Ethylhexyl Palmitae (and) Ethylexyl Stearate (and) Hydrogenated Olive Oil Unsaponifiables (and) Caprylic/Capric Triglyceride	5.00
Cetrimonium Chloride	Cetrimonium Chloride	2.0
Aloe Vera	Aloe Barbadensis Leaf Juice Powder	0.20
Hydroxyethylcellulose	Hydroxyethylcellulose	0.50
Phase B		
Vegarol 1618 50:50[1]	Cetearyl Alcohol	3.00
BergaCare SB[1]	Butyrospermum Parkil (Shea) Butter	2.00
Stearyl Alcohol	Stearyl Alcohol	2.00
Cetyl Alcohol	Cetyl Alcohol	2.00
Grape Seed Oil	Vitis Vinifera (Grape) Seed Oil	1.00
Cocos Oil	Cocos Nucifera Oil	1.00
Glyceryl Stearate Citrate	Glyceryl Stearate Citrate	1.00
Phase C		
GlyAcid® 70 HP[2]	Glycolic Acid (and) Water	2.00
NaOH (25% solution)	Sodium Hydroxide	2
Phase D		
Hydrolyzed Wheat Protein Panthenol	Hydrolyzed Wheat Protein Panthenol	2.00
Phase E		
Preservative/Fragrance	–	q.s.

Procedure

Phase A: Weigh water, BergaCare FG 5 and cetrimonium chloride then begin stirring. Add aloe vera and hydroxyethylcellulose and continue to stir. **Phase B:** Add Phase B raw materials and heat to 75°C. Add Phase B to Phase A while stirring, homogenize for 30 seconds. Cool to 40°C. **Phase C:** Add GlyAcid® mix and Phase D. Adjust pH and preserve.

Suppliers

[1]**Berg + Schmidt,** [2]**CrossChem** distributed by Berg + Schmidt

Properties

Note: For optimal effectiveness of GlyAcid®, we recommend working with a pH between 3.8 and 4.3

pH: ~4

Viscosity: (24H) = na

Internal Ref:

FORMULATION PROVIDED BY:

Berg+Schmidt
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For more information, contact **berg-schmidt.de**

PROTECTIVE LEAVE-IN CONDITIONING SPRAY

This leave-on treatment with **GlyAcid®** and **BergaCare** provides care and protection against environmental factors such as dirt, sunlight and humidity. Our well-thought-out composition delivers a pleasant feel to the touch all day long.

Phase A	INCI Name	% (w/w)
Demineralized Water	Aqua	≤ 100.00
Glycerin (99.5%)	Glycerin	2.00
Xanthan Gum	Xanthan Gum	0.20
Phase B		
BergaCare FG 5[1]	Ethylhexyl Palmitae (and) Ethylexyl Stearate (and) Hydrogenated Olive Oil Unsaponifiables (and) Caprylic/Capric Triglyceride	3.00
BergaCare SB[1]	Butyrospermum Parkil (Shea) Butter	1.50
Ceteareth-20	Ceteareth-20	2.00
Glycercyl Stearate Citrate	Glycercyl Stearate Citrate	0.50
Steareth-2	Steareth-2	2.00
Phase C		
GlyAcid® 70 HP[2]	Glycolic Acid (and) Water	2.50
NaOH (25% solution)	Sodium Hydroxide	2.50
Phase D		
Preservative/Fragrance	-	q.s.

Procedure

Phase A: Weigh water and glycerin and add xanthan gum while stirring. **Phase B:** Weigh all raw materials from Phase B and heat both phases up to ~75°C. Once oil phase is dissolved, add to Phase A while stirring and homogenize for 30 seconds. **Phase C:** Cool to 40°C, add Panthenol and GlyAcid® mix and preserve with Phase D.

Suppliers

[1]**Berg + Schmidt,** [2]**CrossChem** distributed by Berg + Schmidt

Properties

Note: For optimal effectiveness of GlyAcid®, we recommend working with a pH between 3.8 and 4.3

pH: ~4

Viscosity: (24H) = na

FORMULATION PROVIDED BY:

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HAIR SHAMPOO & BODY WASH

A **GlyAcid® 70 HP** based shampoo and body wash targeting both hair and skin care in a one-step solution to your daily routine.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	≤ 100.00
Jaguar® Excel[1]	Guar Hydroxypropyltrimonium Chloride	0.50
MG-60[1]	Maltooligosyl Glucoside (and) Hydrogenated Starch Hydrolysate	1.00
Phase B		
Miracare® NSLB[1]	Sodium Trideceth Sulfate Sodium Lauroamphoacetate Diethylhexyl Sodim Sulfosuccinate	48.00
Phase C		
BHT	BHT	0.05
Olive Oil	Olea Europaea (Olive) Fruit Oil	7.00
Phase D		
2024711 AD Apple Fresh[1]	Perfume	1.50
Phase E		
GlyAcid® 70 HP[2]	Glycolic Acid (and) Water	2.00
Preservative	Preservative	0.50

Procedure

Phase A: Disperse Jaguar® Excel in water then add other phase A ingredients, mix well. **Phase B:** Add phase B to phase A and mix for 10 minutes. **Phase C:** Heat phase C to 50°C. Add heated phase to phase AB, mix for 10 minutes. **Phase D:** Add phase D to phase ABC, mix for five minutes. **Phase E:** Add phase E to phase ABCD, mix for 10 minutes.

Suppliers

[1]**Brenntag,** [2]**CrossChem** distributed by Brenntag

Properties

pH: 5.50

Viscosity: (24H) = na

Internal Ref: LHC20191115

FORMULATION PROVIDED BY:

BRENNTAG

For more information, contact **brenntag.com**

KERATIN HAIR SERUM

Enhanced moisturization and conditioning serum with **GlyAcid® 70 HP** to assist in the repair of damaged hydrogen lateral links within the hair cortex.

Phase A	INCI Name	% (w/w)
Demin. Water	Aqua	≤ 100.00
Tetrasodium EDTA	EDTA	0.10
Satiaxane VPS 930[1]	Xanthan Gum	0.20
Zemea® Propanediol[1]	1,3-Propanediol	3.00
AC Plant Keratin PF[1]	Hydrolyzed Corn Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein	0.50
MG-60[1]	Maltooligosyl Glucoside (and) Hydrogenated Starch Hydrolysate	1.00
Trahalose 100[1]	Trahalose	1.00
GlyAcid® 70 HP[2]	Glycolic Acid (and) Water	1.00
Coconut-Avocado Hair Milk[1]	Water (and) Cocos Nucifera (Coconut) Oil (and) Persea Gratissima (Avocado) Oil (and) Propanediol (and) Glyceryl Stearate (and) Phospolipids (and) Cocos Nucifera (Coconut) Liquid Endosperm (and) Cocos Nucifera (Coconut) Fruit Juice (and) Polyglyceryl-10 Oleate (and) Polyglyceryl-10 Dioleate (and) Cetearyl Alcohol (and) Sodium Stearoyl Lactylate (and) Glycerin	2.00
Optiphen BSB-W[1]	Benzyl Alcohol (and) Aqua (and) Sodium Benzoate (and) Potassium Sorbate	0.30

Procedure

Phase A: For specific procedures, contact your local Brenntag representative.

Suppliers

[1]**Brenntag,** [2]**CrossChem** distributed by Brenntag

Properties

pH: Adjust as desired

Viscosity: (24H) = na

Internal Ref: 20FKHS-01

FORMULATION PROVIDED BY:

BRENNTAG

For more information, contact **brenntag.com**

MICELLAR GLYCOLIC CONDITIONER

A **GlyAcid® 70 HP** based conditioner with Polycare®, Erylite®, Zemea® and other proven ingredients to improve the feel and appearance of hair.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	≤ 100.00
Sodium gluconate	Sodium Gluconate	0.10
Jaguar® HP 105[1]	Hydroxypropyl Guar	0.50
Erylite® Erythritol F8030[1]	Erythritol	2.00
Polycare® Split Therapy[1]	Hydropropyl Guar Hydroxrpropyltrimonium Chloride	0.30
Jaguar® Optima[1]	Guar Hydroxrpropyltrimonium Chloride	0.20
Purac® UltraPure 90[1] (to pH 4.0-4.5)	Lactic Acid	q.s.
Zemea® Propanediol[1]	1,3-Propanediol	3.00
Phase B		
Fentacare® 2231 MS 1 90[1]	Behentrimonium Methosulfate	3.00
Ceterayl Alcohol	Cetearyl Alcohol	8.50
Makcaderm LIA[1]	Isoamyl Laurate	3.50
Phase C		
Fentacare® 1631	Cetrimonium Chloride	3.00
Phase D		
2004543 Love Potion F.[1]	Fragrance	1.00
Preservative	Preservative	0.50
Phase E		
GlyAcid® 70 HP[2]	Glycolic Acid (and) Water	2.00
Phase F		
Sodium Hydroxide (to pH 4.0-4.5)	Sodium Hydroxide	q.s.

Procedure

Phase A: Mix phase A in water and then disperse Jaguar® Excel and Polycare® Split Therapy in water and adjust pH to 3.5-5.0. **Phase B:** Melt phase B at 70-75°C and add phase until homogeneous. **Phase C:** Add phase C to part AB until homogeneous. **Phase D & E:** Cool to 40-45°C, add phase DE, stir until homogeneous. **Phase F:** Adjust pH to 4.00-4.50.

Suppliers

[1]**Brenntag,** [2]**CrossChem** distributed by Brenntag

Properties

pH: 4.12

Viscosity: Spindle 63 @ 0.3 rpm = 241.000 cP

Internal Ref: LHC20191008

FORMULATION PROVIDED BY:

BRENNTAG

For more information, contact **brenntag.com**

REGENERATING HAIR CONDITIONER

Regenrate the silky and lusturous feel of your hair with honey, vitamin E and **GlyAcid® 70 HP.**

Phase A	INCI Name	% (w/w)
Demin. Water	Aqua	≤ 100.00
Tetrasodium EDTA	EDTA	0.10
Mackine 301[1]	Stearamidopropyl Dimethylamine	1.50
GlyAcid® 70 HP[2]	Glycolic Acid (and) Water	1.00
MG-60[1]	Maltooligosyl Glucoside (and) Hydrogenated Starch Hydrolysate	1.50
Zemea® Propanediol[1]	1,3-Propanediol	2.00
Phase B		
CO 1698[1]	Cetyl Alcohol	2.00
Lipomulse Luxe[1]	Cetearyl Alcohol (and) Glyceryl Stearate (and) PEG-40 Stearate (and) Ceteareth 20	5.00
Lipovol Argan Virgin[1]	Argania Spinosa Kernel Oil	3.00
Liponate CCC MB[1]	Coco-Caprylate/Caprate	1.00
Vitamin E[1]	Tocopheryl Acetate	1.00
Phase C		
AC Quaternized Honey[1]	Hydroxypropyltrimonium Honey	1.00
AC Plant Keratin PF[1]	Hydrolyzed Corn Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein	0.50
Glydant Plus Liquid[1]	DMDM Hydantoin (and) Todopropynyl Butylcarbamate	0.30
KOH Solutino (50%)	Potassium Hydroxide	0.80
Timeless Rose[1]	Fragrance	0.50

Procedure

Phase A: For specific procedures, contact your local Brenntag representative.

Suppliers

[1]**Brenntag,** [2]**CrossChem** distributed by Brenntag

Properties

pH: adjust as desired

Viscosity: (24H) = na

Internal Ref: 19FRHC-01

FORMULATION PROVIDED BY:

BRENNTAG

For more information, contact **brenntag.com**

REJUVENATING SULFATE-FREE SHAMPOO

A repairing and rejuvenating sulfate-free shampoo with proteins and **GlyAcid® 70 HP**.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	≤ 100.00
EDTA	EDTA	0.30
Jaguar® Excel[1]	Guar Hydroxrpropyltrimonium Chloride	0.20
GlyAcid® 70 HP[2]	Glycolic Acid (and) Water	3.00
Miracare Soft S-525[1]	Water, Sodium Methyl Cocyl Isethionate, Sodium Methyl Oleyl Taurate, Cocamide MIPA, Decyl Glucoside, Cocamidopropyl Hydroxysultaine	20.00
Mackanate EL[1]	Disodium Laureth Sulfosuccinate	0.50
AC Plant Keratin PF[1]	Hydrolyzed Corn Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein	0.50
Zemea® Propanediol[1]	1,3-Propanediol	3.00
Flocare C107 LM[1]	Polyquaternium 7	1.00
KOH Solution (50%)	Potassium Hydroxide	0.30
Glydant Plus Liquid[1]	DMDM Hydantoin (and) Todopropynyl Butylcarbamate	3.50
Timeless Rose[1]	Fragrance	0.50

Procedure

Phase A: Add EDTA to water, mix until homogeneous. Add Jaguar® Excel and mix until well dispersed. Hydrate by adjusting pH to 3.5-5.0 using citric acid, mix for 15 minutes. Once hydrated to full viscosity, add amphoterics/non-ionic surfactant first, Miracare Soft S-525, 20%. Add anionic surfactant and mix until homogeneous (Mackanate EL). Add remaining ingredients and mix until homogeneous.

Suppliers

[1]**Brenntag,** [2]**CrossChem** distributed by Brenntag

Properties

pH: –

Viscosity: –

Internal Ref: 20FRSFS-01

FORMULATION PROVIDED BY:

BRENNTAG

For more information, contact **brenntag.com**

REPLENISHING SHAMPOO WITH GLYACID®

A Reinolderm and **GlyAcid® 70 HP** infused shampoo with a touch of Love Potion fragrance for that replenishing feel and look of beauty.

Phase A	INCI Name	% (w/w)
Demin. Water	Aqua	≤ 100.00
Sodium Gluconoate[1]	Sodium Gluconate	0.10
Erythritol Erylite[1]	Erythritol	2.00
Mackol® CAS 100N	Sodium Coco-Sulfate	10.00
Zemea® Propanediol[1]	1,3-Propanediol	2.00
Phase B		
Miranol® Ultra C-32[1]	Sodium Cocoamphoacetate	6.00
Miratan® BET C-30 NP[1]	Cocamidopropyl Betaine	8.00
Phase C		
GlyAcid® 70 HP[2]	Glycolic Acid (and) Water	1.00
Phase D		
Preservative	Preservative	0.50
Reinolderm OLV3[1]	Olive Oil PEG-7 Esters	3.00
Phase E		
2004543 Love Potion F[1]	Fragrance	1.50
Alkamuls® CRH40	PEG-40 Hydrogenated Castor Oil	1.50

Procedure

Phase A: Premix phase A and heat to 70-80°C, stir until clear. **Phase B:** Add phase B to phase A, stir until homogeneous. **Phase C & D:** Add phase C and phase D to AB, stir until homogeneous. **Phase E:** Premix phase E and add to ABCD, stir until homogeneous. Adjust pH to 4.00-4.50.

Suppliers

[1]**Brenntag,** [2]**CrossChem** distributed by Brenntag

Properties

pH: 4.18

Viscosity: Spindle 62 @ 30 rpm = 591.9 cP

Internal Ref: LHC20191007

FORMULATION PROVIDED BY:

BRENNTAG

For more information, contact **brenntag.com**

GLYCOLIC ACID SHAMPOO BT

A blend of **GlyAcid®**, **Miranol®**, **Miratain®** and other unique ingredients to improve the manageability and appearance of hair.

Phase A	INCI Name	% (w/w)
DI Water	Aqua	≤ 100.00
Sodium Gluconate	Sodium Gluconate	0.10
Erythritol Erylite	Erythritol	2.00
Palmfonate 6709F	Sodium Methyl Palmitate Solfonate	10.00
Palmester 5101	Glycol Distearate	2.00
Zemea® Propanediol[1]	1,3-Propanediol	5.00
Phase B		
Soypon L-30	Sodium Lauroyl Sarcosinate	5.00
Miranol® Ultra L-32[1]	Sodium Lauromphoacetate	3.00
Miratan® BET C-30 NP[1]	Cocamidopropyl Betaine	8.00
Phase C		
GlyAcid® 70 HP[2]	**Glycolic Acid (and) Water**	2.50
Phase D		
Preservative	Preservative	0.50
Reinolderm OLV3[1]	Olive Oil PEF-7 Esters	3.00
2024429 Frumix Strong[1]	Fragrance	1.00
Phase E		
Cocamide DEA	Cocamide DEA	1.00
Sodium Hydroxide to pH 6.0-7.0	Sodium Hydroxide	q.s.

Procedure

Phase A: Premx phase A and het to 70-80°C, stir until clear.
Phase B: Add phase B to phase A, stir until homogeneous.
Phase C: Add phase C to phase AB, stir until homogeneous.
Phase D: Add phase D to phase ABC, stir until homogeneous.
Phase E: Add phase E to phase ABCD, stir until homogeneous.

Suppliers

[1]**Brenntag,** [2]**CrossChem** distributed by Brenntag

Properties

pH: 6.65

Viscosity: Spindle 62 @ 20 rpm = 1.042 cP

Internal Ref: LHC20191007

FORMULATION PROVIDED BY:

BRENNTAG

For more information, contact **brenntag.com**

GLYACID® SCALP & HAIR MASQUE

Exfoliate dirt and debris from your scalp without irritation or grit. Apply this masque to damp hair. It goes on like a light lotion and rinses out like a dream. The JD Jojoba Hair Complex delivers a conditioning effect and increases scalp hydration. No scrubbing gritty sugar or salt particles out of your hair. Now you can treat your hair and scalp with the respect they deserve.

Phase A	INCI Name	% (w/w)
DI Water	DI Water	73.00
GlyAcid® 70 HP[1,2]	Glycolic Acid	2.00
Sodium Hydroxide	Sodium Hydroxide	q.s.
Phase B		
Glycerin	Glycerin	5.00
Endicare® DLP-50[1]	Panthenol	1.00
Phase C		
JD Jojoba Hair Complex[1,3]	Simmondsia Chinensis (Jojoba) Seed Oil, Cocos Nucifera Coconut) Oil, Cannabis Sativa Seed Oil, Solanium Lycopersicum Seed Oil (and) Caprylic/Capric Triglyceride (and) Vaccinium Macrocarpon Seed Oil (and) Helianthus Annuus Seed Oil (and) Tocopherol)	5.50
JD Jojoba Oil[1,3]	Simmondsia Chinensis (Jojoba) Seed Oil	
Endimate® 33V[1]	Caprylic/Capric Triglyceride	
Olivatis® 18[1,4]	Olive Oil Polyglyceryl-6 Esters (and) Sodium Stearoyl Lactylate (and) Cetearyl Alcohol)	
Endicare® CT-100[1]	Cetearyl Alcohol (and) Cetrimonium Bromide	5.50
Phase D		
Sharomix™ Amplify AM24[1,5]	Caprylyl Glycol (and) Methylpropanediol (and) Didecyldimonium Chloride (and) Polyquaternium-80)	

Procedure

Phase A: Add DI Water to main vessel then neutralize the GlyAcid® 70 HP to pH 4.50. **Phase B:** Add Phase B ingredients to Phase A with mixing and begin heating to 70°C. **Phase C:** Add Phase C ingredients to a side vessel and begin heating to 70°C. When both Phase AB and Phase C are at 70°C, then add Phase C to Phase AB and begin cooling. **Phase D:** At 40°C, add Phase D to Phase ABC.

Suppliers

[1]**Coast Southwest, Inc.,** [2]**CrossChem,** [3]Jojoba Desert (S.C.S. LTD.), [4]Medolla Iberia S.L., [5]Sharon-Laboratories Ltd.

Properties

pH: 5.5 to 6.65

Viscosity: Spindle 4 @ 30 rpm = 2,300 to 3,700 cst

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

LOCK IN MOISTURE & BANISH FRIZZ HAIR GEL

Highly effective in penetrating the skin's surface, glycolic acid has been shown to improve the appearance of dry or flaky scalp by decreasing levels of scalp and follicle damage. High-purity **GlyAcid® 70 HP** is formaldehyde-free and aids in cellular replenishment and regeneration of the scalp.**Sharomix™ Amplify AM-24** demonstrates superior microbiological performance at significantly lower levels of use.

Phase A	INCI Name	% (w/w)
Deionized Water	Deionized Water	69.30
Synthalen® W2000[1,2]	Acrylates/Palmeth-25 Acrylate Copolymer	9.00
Tetrasodium EDTA	Tetrasodium EDTA	0.10
DL-Panthenol 50%[1]	Anthenol	0.50
Glycerin 99.7% USP Kosher1	Glycerin	1.50
Propylene Glycol	Propylene Glycol	2.00
Endicare® SC-530[1]	Polyethyloxazoline	12.00
Endisil® FS-193[1,3]	PEG-12 Dimethocone	4.00
Phase B		
GlyAcid® 70 HP[1,4]	Glycolic Acid	2.00
NaOH 30% w/w Solution	Sodium Hydroxide	q.s.
Phase C		
Conditioner P7NA1,2	Polyquaternium-7	0.10
Sharomix Amplify AM-24	Caprylyl Glycol (and) Methylpropanediol (and) Didecyldimonium Chloride (and) Polyquaternium 80	0.50

Procedure

Phase A: Combine in formula order while mixing with propeller agitator until fully uniform. **Phase B:** Add GlyAcid® 70 HP to main vessel. Adjust pH between 6.0 to 6.5 with Sodium Hydroxide. **Phase C:** Add Phase C in formula order to batch AB while continuously mixing. Transfer to final container once uniform.

Suppliers

[1]**Coast Southwest Inc.,** [2]3V Sigma-USA, [3]Momentive, [4]**CrossChem,** [5]Sharon-Laboratories Ltd.

Properties

pH: 6.0 – 6.5

Viscosity: #4 @ 6.0rpm (25ºC) 20,000 to 25,000 cst.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

TREAT YOUR BEARD LIKE A ROCK STAR

Modern grooming calls for multi-functional products with just a touch of flair. Formulated with high-purity, formaldehyde-free **GlyAcid® 70HP,** this wash is for beards that deserve the best.

Phase A	INCI Name	% (w/w)
Deionized Water	Deionized Water	43.80
Glycerin 99.7, USP[1]	Glycerin	4.00
Endiquest® GLDA[1]	Tetrasoium Glutamate Diacetate	0.10
Endicare® DLP-50[1]	Panthenol	43.80
Phase B		
Endinol® MILD B-SF65A1	Sodium Cocoyl Isethionate (and) Cocamidopropyl Hydroxysultaine (and) Lauryl Glucoside (and) Cocamidopropylamine Oxide (and)Caprylyl Capryl Glucoside	25.00
Endinol® MILD LG-12501	Lauryl Glucoside	5.00
Endinol® MILD LG-10501	Decyl Glucoside	5.00
Phase C		
Olivatis® 21[1,2]	Olive Oil PEG-6 Esters (and) Olive Oil Polyglyceryl-6 Esters	3.00
Yangu Oil[1]	Calodendrum Capense Seed Oil	1.40
Bergamot Italian Oil[1]	Citrus Aurantium Bergamia Fruit Oil	1.00
Peppermint Gum Oil[1]	Eucalyptus Dives Leaf/Twig Oil	0.30
Balm Mint Bush Oil[1]	Prostanthera Melissifolia Leaf/Twig Oil	0.30
Phase D		
GlyAcid® 70HP[1,3]	Glycolic Acid	2.00
NaOH 30% w/w Solution	Sodium Hydroxide	q.s.
Phase E		
Synthalen® W2000[1,4]	Acrylates/Palmeth25 Acrylate Copolymer	6.00
NaOH 30% w/w Solution	Sodium Hydroxide	q.s.
Phase F		
Novachem Golden Milk[1,5]	Water (and) Glycerin (and) Curcuma Zedoaria Root Extract (and) Piper Nigrum (Pepper) Fruit Extract (and) Crocus Sativus Flower Extract	2.00
Conditioner P7N[A1,4]	Polyquaternium-7	0.10
Sharomix® Amplify AM-24[1,6]	Caprylyl Glycol (and) Methylpropanediol (and) Didecyldimonium Chloride (and) Polyquaternium 80)	0.50

Procedure

Phase A: In main vessel, add Phase A while mixing. **Phase B:** Heat Phase A to 35°C to 40°C, then add Phase B surfactants to main vessel. Mix until dissolved. **Phase C:** In a separate container, pre-mix oils and emulsifier until continuous, then slowly add Phase C to Phase AB under moderate to high shear. **Phase D:** Add GlyAcid® 70HP to Phase ABC and neutralize until pH 5 to 6. **Phase E:** Add carbomer and neutralize until pH 5 to 6. **Phase F:** At 30°C, add Phase F to Phase ABCDE and mix until continuous.

Suppliers

[1]**Coast Southwest Inc.,** [2] Medolla Iberia S.L., [3]**CrossChem,** [4]3V Sigma USA, [5]Novachem S.R.L, [6]Sharon-Laboratories Ltd.

Properties

pH: 5 to 6

Viscosity: #2 @100 rpm (25°C) - 100 to 200 cst.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

LOCIÓN CAPILAR

Aumenta la lubricidad de la fibra capilar debido a que realinea y reconecta las capas de queratina de la cuticula, también Imparte volumen al cabello y permite el peinado del mismo, repara la estructura capilar día a día, confiriendo fuerza y resistencia a los cabellos.

Fase	Nombre INCI	% (w/w)
1 Agua	Water	78.5
2 Queratrix[1]	Hydrolyzed Keratin (and) Creatine	2.00
3 **GlyAcid® 70 HP**[2]	Glycolic Acid	1.50
4 Phanilgne 2[3]	Hydrolyzed Wheat Protein (and) Methicone	2.00
5 Plantcol[4]	Acacia Senegal Gum Extract	2.00
6 T-20	Polysorbate-20	1.00
7 Euxyl K-300[4]	Phenoxyethanol, Methylparaben, Butylparaben, Ethylparaben, Propylparaben, Isobutylparaben	1.00
8 Alcohol	Alcohol	1.00
9 Alistin[3]	Decarboxy Carnosine Hcl (and) Butylene Glycol (and) Water (and) Fenoxietanol	2.00

Procedimiento

Mezclar uno a uno los materiales con agitación constante.

Proveedores

[1]Aqia, [2]**CrossChem,** [3]Exsymol, [4]Ashland,

Propiedades

ph: 4.0 – 6.0

Viscosidad: n.a.

FORMULACIÓN APORTADA POR:

sintoquim
CIENCIA Y CONCIENCIA

Para más información contactar con **sintoquim.com**

EXFOLIANTE CUERO CABUELLUDO CON ÁCIDIO GLICÓLICO

Elimina las células muertas de la piel, productos, transpiración, sebo y otros residuos. Esta limpieza profunda incrementa la producción celular. El ormagel SH minimizará la irritación y controlará la grasa gracias al bio acetun balsamico.

Fase	Nombre INCI	% (w/w)
1 Agua	Water	89.64
2 Dermothix 100[1]	Distearеth-100 IPDI	0.44
3 Ormagel SH[2]	Hypnea Musciformis Extract, Gelidiella Acerosa Extract, Sargassum Filipendula Extract, Sorbitol, Sodium Benzoate and Potassium Sorbate	2.42
4 Bio Acetum Balsamico[3]	Vinegar (and) Vitis Vinifera (Grape) Fruit Extract (and) Water (and) Fructose (and) Glucose (and) Gluconic Acid (and) Gluconolactone (and) Caesalpinia Spinosa Gum (and) Commiphora Myrrha Resin Extract (and) Myroxylon Balsamum (Balsam Tolu) Resin (and) Styrax Benzoin Resin Extract	3.00
5 **GlyAcid® 99HP**[4]	Glycolyc Acid	3.00
6 Euxyl PE9010[5]	Phenoxyetanol and Ethylhexylglycerin	1.00
7 Fragancia Eucalipto	Sin dato	0.50

Procedimiento

1. Pesar e incorporar ingrediente 1 y 2 hasta homogeneizar .
2. Adicionar los ingredientes restantes hasta homogeneizar.
3. Proceder a envasar.

Proveedores

[1]Alzo, [2]Assessa, [3]Aqia, [4]**CrossChem**, [5]Ashland

Propiedades

Ph: 3.5 – 5.0

Viscosidad: 300-500 cps Sp 64 / 20 rpm / 20s

FORMULACIÓN APORTADA POR:

sintoquim
CIENCIA Y CONCIENCIA

Para más información contactar con **sintoquim.com**

LOVE IS IN THE HAIR-SPRAY

Conditioning emulsion spray for lengths and tips.

Phase A	INCI Name	% (w/w)
demin. Water	Aqua	83.8
Glycerin 99.5%[1]	Glycerin	2.0
Xanthan Gum[2]	Xanthan Gum	0.2
Phase B		
BergaCare FG Olive[3]	Hydrogenated Ethylhexyl Olivate (and) Hydrogenated Olive Oil unsaponifiables	3.0
BergaCare SB[3]	Butyrospermum Parkii (Shea) Butter	1.5
Zetemuls B20[4]	Ceteareth-20	2.0
Steareth-2[1]	Steareth-2	2.0
Glyceryl Stearate Citrate[1]	Glyceryl Stearate Citrate	0.5
Phase C		
GlyAcid® 70 HP[5]	Glycolic Acid (and) Water	2.5
NaOH (25% Solution)[1]	Sodium Hydroxide	2.5
Phase D		
Preservative/Fragrance	–	q.s.

Procedure

Phase A: Weigh in Glycerin, add Xanthan Gum under stirring and water subsequently, heat up to 75°C. **Phase B:** Weigh in all raw materials from phase B under stirring and heat up to 75°C until homogeneous. **Phase C:** Add phase B to A while stirring and homogenize for 30 seconds at 7000 rpm with Ultra Turrax. **Phase D:** Cool down to 40°C, add pre-mixed phase C, adjust the pH to 4.0 and preserve

Suppliers

[1]Diverse, [2]CP Kelko, [3]**Berg+Schmidt,** [4]Zschimmer & Schwarz, [5]**CrossChem** via VBerg + Schmidt

Properties

pH: 4.0

Viscosity (24 hr): 480 Cps

Internal Ref.: Hair Care-012-BSC

FORMULATION PROVIDED BY:

Berg+Schmidt
Care Ingredients
Our knowledge. Your formulations.

For more information, contact **berg-schmidt.de**

SCALP AHA MOMENTS

This leave-on treatment with **GlyAcid®** and BergaCare provides care and protection against environmental factors such as dirt, sunlight and humidity. Our well-thought-out composition delivers a pleasant feel to the touch all day long.

Phase A	INCI Name	% (w/w)
Demineralized Water	Aqua	≤ 100.00
Glycerin (99.5%)	Glycerin	2.00
Xanthan Gum	Xanthan Gum	0.20
Phase B		
BergaCare FG 5[1]	Ethylhexyl Palmitae (and) Ethylexyl Stearate (and) Hydrogenated Olive Oil Unsaponifiables (and) Caprylic/Capric Triglyceride	3.00
BergaCare SB[1]	Butyrospermum Parkil (Shea) Butter	1.50
Ceteareth-20	Ceteareth-20	2.00
Glycercyl Stearate Citrate	Glycercyl Stearate Citrate	0.50
Steareth-2	Steareth-2	2.00
Phase C		
GlyAcid® 70 HP[2]	Glycolic Acid (and) Water	2.50
NaOH (25% solution)	Sodium Hydroxide	2.50
Phase D		
Preservative/Fragrance	-	q.s.

Procedure

Phase A: Weigh water and glycerin and add xanthan gum while stirring. **Phase B:** Weigh all raw materials from Phase B and heat both phases up to ~75°C. Once oil phase is dissolved, add to Phase A while stirring and homogenize for 30 seconds. **Phase C:** Cool to 40°C, add Panthenol and GlyAcid® mix and preserve with Phase D.

Suppliers

[1]**Berg + Schmidt,** [2]**CrossChem** distributed by Berg + Schmidt

Properties

Note: For optimal effectiveness of GlyAcid®, we recommend working with a pH between 3.8 and 4.3

pH: ~4

Viscosity: (24H) = na

Internal Ref:

FORMULATION PROVIDED BY:

Berg+Schmidt
Care Ingredients
Our knowledge. Your formulations.

For more information, contact **berg-schmidt.de**

CHEVEUX DIVAS – MUSHROOM PROTECT HAIR SERUM

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	Ad 100
Sodium Benzoate[1]	Sodium benzoate	0.5
Actigum VSX20[2]	Sclerotium Gum & Xanthan Gum	1
Diglycerol	Diglycerol	2
Phase B		
Deionized Water	Aqua	25
Polycare Split Therapy[4]	Hydroxypropyl Guar Hydroxypropyltrimonium Chloride	0.5
Citric acid solution 10%	Citric acid solution 10%	0.18
Phase C		
GlyAcid® 70 HP[5]	Glycolic acid	0.5
Phase D		
16916 Mycofuse Protect[6]	Water & Lentinus Edodes Mycelium Extract & Lactobacillus Ferment	1
Specifeel Solplus[7]	Polysorbate 20, PEG 40 Hydrogenated Castor Oil, Trideceth – 9	0.5
Fragrance	Fragrance	0.25

Procedure

Phase A: Solubilize Sodium Benzoat and Diglycerol in order into water. Add Actigum VSX20 and homogenized for 5 – 10 minutes. **Phase B:** Disperse Polycare Split Therapy in water, neutralize with citric acid solution. Add to Phase A, mix until homogenous. **Phase C:** Add Glyacid 70 to phase A, mix until homogenous. **Phase D:** Add Mycofuse Protect to phase A, mix until homogenous. **Phase E:** Disperse fragrance in specifeel solplus, add to phase A, mix until homogenous.

Suppliers

[1] Wuhan, [2]Cargill, [3]Inovyn, [4]Solvay, [5]**CrossChem,** [6]Active Concepts, [7]Roelmi

Properties

pH: 3.5 – 4.5

Viscosity: 1970 cps (sp03;20 rpm)

FORMULATION PROVIDED BY:

BRENNTAG

For more information, contact **brenntag.com**

CHEVEUX DIVAS – SILICONE-FREE CONDITIONER

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	q.s. to100
TEDTA	TEDTA	0.10
Liponic EG-1[1]	Glycereth-26	2.00
Zemea® Propanediol	Propanediol	1.00
Fentacare BTAC DPG 70[2]	Behentrimonium Chloride	1.50

Phase B		
Lipomulse Luxe MB[1]	Cetearyl Alcohol (and) Glyceryl Stearate (and) PEG-40 Stearate (and) Ceteareth-20	3.00
CO 1698[3]	Cetyl Alcohol	4.00
Mackaderm LIA MB[2]	Isoamyl Laurate (Solvay)	2.00
DW Jojoba Golden[1]	Simmondsia Chinensis (Jojoba) Seed Oil	1.00

Phase C		
AC PolyJackharides[4]	Water & Artocarpus Heterophyllus Fruit Extract	1.00
GlyAcid® 70HP[5]	Glycolic Acid	0.80
Timeless Rose SH[6]	Fragrance	0.30
MG-60[7]	Maltooligosyl GlucosideHydrogenated Starch Hydrolysate	0.80
Conarom P2[8]	Phenethyl Alcohol (and) Caprylyl Glycol (and) Propanediol (and) Polyglyceryl-4 Laurate/Sebacate (and) Polyglyceryl-6 Caprylate/Caprate	1.00

Procedure

Add TEDTA in water and mix until homogenous. Heat **Phase A** up to 70-75°C. Simultaneously, heat Phase B to 70-75°C. Add **Phase B** to Phase A, mix until homogenous. Cool to below 40°C. Add the rest of **Phase C**. Mix after each addition.

Suppliers

[1]Vantage, [2]Solvay, [3]P and G Chemicals, [4]Active Concepts, [5]**CrossChem** distributed by Brenntag, [6]CPL Aromas, [7]Nagese, [8]Ashland

Properties

pH: 4.50 ± 0.25

Viscosity: (62,30)

FORMULATION PROVIDED BY:

BRENNTAG

For more information, contact **brenntag.com**

CHEVEUX DIVAS – SPLIT REPAIR HAIR SERUM

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	q.s. to 100
TEDTA	TEDTA	0.10
Polycare Split Therapy[1]	Hydroxypropyl Guar Hydroxypropyltrimonium Chloride	0.80
GlyAcid® 70HP[2]	Glycolic Acid	0.80
AC PolyJackharides[3]	Water and Artocarpus Heterophyllus Fruit Extract	1.00
Jojoba Aqua 120[4]	Jojoba Wax PEG-120 Esters	1.00
Zemea® Propanediol	Propanediol	2.00
Alkamuls PSML-20[4]	Polysorbate 20	0.20
Conarom P2[5]	Phenethyl Alcohol (and) Caprylyl Glycol (and) Propanediol (and) Polyglyceryl-4 Laurate/Sebacate (and) Polyglyceryl-6 Caprylate/Caprate	1.00

Procedure

Phase A: Add TEDTA in water and mix until homogenous. Add Polycare Split Therapy and mix until homogenous. Add glycolic acid, mix until viscosity develops, and PST is hydrated. Add the rest of the ingredients. Mix after each addition.

Suppliers

[1]Solvay, [2]**CrossChem**, 3Active Concepts, [4]Vantage, [5]Ashland

Properties

pH: 5.0 ± 0.25

Viscosity: (62,30)

FORMULATION PROVIDED BY:

BRENNTAG

For more information, contact **brenntag.com**

CHEVEUX DIVAS – SULFATE-FREE HYDRATING SHAMPOO

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	q.s. to 100
TEDTA	TEDTA	0.10
Lipopeg 6000 DS[1]	PEG-150 Distearate	2.00
Phase B		
Mackanate EL[2]	Disodium Laureth Sulfosuccinate	16.0
Metaupon KMT 30 MB[1]	Sodium Methyl Cocoyl Taurate	8.00
Miratraine BET C-30 NP[2]	Cocamidopropyl Betaine	4.50
Ferma SH[3]	Glycolipids	1.50
Ferma SL[3]	Glycolipids	1.00
Phase C		
Jojoba Aqua 120[1]	Jojoba Wax PEG-120 Esters	0.80
AC PolyJackharides[4]	Water & Artocarpus Heterophyllus Fruit Extract	1.00
GlyAcid® 70HP[5]	Glycolic Acid	1.00
Timeless Rose SH[6]	Fragrance	0.30
Lipocol HCO-40[1]	PEG-40 Hydrogenated Castor Oil	0.20
MG-60[7]	Maltooligosyl GlucosideHydrogenated Starch Hydrolysate	
Conarom P2[8]	Phenethyl Alcohol (and) Caprylyl Glycol (and) Propanediol (and) Polyglyceryl-4 Laurate/Sebacate (and) Polyglyceryl-6 Caprylate/Caprate	1.00
Phase B		
Sodium Chloride	Sodium Chloride	0.8

Procedure

Add TEDTA in water and mix until homogenous. Heat **Phase A** up to 600C. Melt Lipopeg 6000 DS. Cool Phase A to 350C and add surfactants. Mix slowly to prevent bubble formation. Add **Phase B** to Phase A until homogenous. Add Jojoba Aqua 120, mix until homogenous. Add the rest of **Phase C.** Mix after each addition. Adjust viscosity with sodium chloride.

Suppliers

[1]Vantage, [2]Solvay, [3]Locus, [4]Active Concepts, [5]**CrossChem,** [6]CPL Aromas, [7]Nagase, [8]Ashalnd

Properties

pH: 4.50 ± 0.25

FORMULATION PROVIDED BY:

BRENNTAG

For more information, contact **brenntag.com**

CHEVEUX DIVAS – GOOD HAIR WASH

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	To 100
EDTA 2 Na	Disodium EDTA	0.1
Polycare® Split Therapy[1]	Hydroxypropyl Guar Hydroxypropyltrimonium Chloride	0.3
Jaguar® C-162[1]	Hydroxypropyl Guar Hydroxypropyltrimonium Chloride	0.2
Zemea® Propanediol[2]	Propanediol	3
Purac® Ultrapure 90[3]	Lactic Acid	q.s.
Phase B		
Tensagex EOM670B[4]	Sodium Laurate Sulfate	15
Miranol Ultra C-32[1]	Sodium Cocoamphoacetate	5
Mirataine BET C-30N[1]	Cocamidopropyl Betaine	6
NaCl	Sodium Chloride	0.5
Phase C		
Ferma™ SH[5]	Glycolipid	7
PB00576 Yuzu Zest[6]	Perfume	1.5
Phase D		
GlyAcid® 70 HP	Glycolic Acid	1
BNB G-68[8]	1,2-Hexanediol (and) 1,2-Octanediol	0.5
Phytocycle Orange[9]	Water (and) Citrus Aurantium Dulcis (Orange) Fruit Extract (and) Lactobacillus Ferment	1

Procedure

Phase A: Mix Jaguar® C-162 and Polycare Split with Zemea® Propanediol and then add water, adjust pH 3.50 – 5.00 with Purac® Ultrapure 90 and stir until to clear. **Phase B:** Add this phase into phase A, then mix well until homogeneous. **Phase C:** Premix and add this phase, then mix well until homogeneous. **Phase D:** Add this phase, then mix well until homogeneous.

Suppliers

[1]Solvay, [2]Dupont Tate & Lyle, [3]Corbion, [4]KLK, [5]Locus, [6]PES, [7]**CrossChem,** [8]B and B, [9]Active Concepts

Properties

pH: 4.50 – 5.00

Viscosity: 2,000 – 3,000 cps

FORMULATION PROVIDED BY:

BRENNTAG

For more information, contact **brenntag.com**

Skin Care

HIBISCUS EXFOLIATING AND FOAMING JELLY

This pink, hibiscus-infused jelly utilizes **GlyAcid®** to chemically exfoliate the skin and Fiflow® perfluorocarbon technology to reduce the appearance of wrinkles and fine lines. Olive esters and Micromatrix® quickly condition the skin leaving it exfoliated and conditioned.

Phase A	INCI Name	% (w/w)
Micromatrix® Fractile CAT[1,2]	Aqua (and) Corn Starch Modified (and) Polyquaternium-10	57.65
Hydrasoft® Pine[1,2]	Aqua (and) Hydroxyethylcellulose (and) Preservative System	15.00
Olivatis™ 15[1]	Olive Oil Glycereth-8 Esters)	10.00
GlyAcid® 70 HP[1,3]	Glycolic Acid (and) Aqua	6.00
Hibiscus Tea[1,4]	Hibiscus Sabdariffa	0.35

Phase B		
Fiflow® VF[1,2] threne (and) Perfluorodimethylcyclohexane	Perfluorohexane (and) Perfluorodecalin (and) Perfluoroperhydrophenan-	5.00
Fiflow® BB61[1,2]	Perfluorohexane (and) Perfluorodecalin (and) Perfluoroproane	3.00
Endicare® FB-810[1]	Hydrolyzed Cornstarch	3.00

Procedure

Phase A: Add Phase A to main vessel with shear mixing. Note: Allot time for hibiscus powder to completely wet-out. **Phase B:** Add Phase B to main vessel under high shear. Transfer to final container.

Suppliers

[1]**Coast Southwest, Inc.,** [2]The Innovation Company®, [3]**CrossChem,** [4]Tea Guys

Properties

pH: 2.50 – 3.0

Viscosity: Spindle 4 @ 60 rpm = 2,500 to 3,500

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

COMPLEXION CLEARING FACIAL CREAM

This lubricious facial cream with **GlyAcid®** has a unique cushiony texture. **AstaDerm™ 200** provides skin tightening. MedXtract Witch Hazel contains soothing and mild astringent properties.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	80.40
Dissolvine® NA2-S[1,2]	Disodium EDTA	0.05
Glycerin[1]	Glycerin	2.50
Phase B		
Stabylen 30[1,3]	Acrylates/Vinyl Isodecanoate Crosspolymer	0.50
Phase C		
Safflower Oil[1]	Carthanmus Tinctorius (Safflower) Seed Oil	4.00
Jojoba Oil[1,4]	Simmondsia Chinensis (Jojoba) Seed Oil	3.00
Endicare® LI-7[1]	PEG-7 Glyceryl Cocoate	0.80
Cetyl Alcohol[1]	Cetyl Alcohol	1.50
Vitamin E Acetate[1]	Tocopheryl Acetate	0.10
Phase D		
NaOH 20% aq. solution	Sodium Hydroxide	1.00
GlyAcid® 70 HP[1,5]	Glycolic Acid (and) Aqua	2.85
Phase E		
Endimoist® HA Solution[1]	Sodium Hyaluronate	0.50
Phase F		
AstaDerm™ 200[1]	Porphyridium Polysaccharide	1.00
MedXtract Witch Hazel Distilled[1,6]	Hamamelis Virginiana Leaf Water	1.00
Sharon Biomix Free CG[1,7]	Caprylyl Glycol (and) Propylene Glycol (and) Glycerin (and) Citrus Reticulata Fruit Extract (and) Citrus Aurantium (and) Amara Fruit Extract (and) Citrus Sinensis Peel Extract (and) Ascorbic Acid (and) Citric Acid (and) Lactic Acid (and) Water	0,80

Procedure

Phase A: In main vessel, add Phase A, mix, and heat to 60ºC.
Phase B: Slow add Phase B to Phase A until dissolved.
Phase C: In a separate vessel, mix Phase C and heat to 140ºF (60ºC). At temperature, increase mixing speed,4 and add slowly Phase C to Phase AB. Allow the mixture to become uniform.
Phase D: Add Phase D to Phase ABC. The mixture may thicken. Maintain mixing and discontinue heating. Allow mixture to cool to 104ºF (40ºC). Phases E and F: Add Phases E and F in order to Phase ABCD. Cool to 77 to 86ºF (25 to 30ºC) and transfer to holding vessel.

Suppliers

[1]**Coast Southwest, Inc.,** [2]Akzo Nobel Functional Chemicals LLC, [3]3V Sigma-USA, [4]Jojoba Desert (A.C.S.) Ltd., [5]**CrossChem,** [6]Medolla Limited, [7]Sharon-Laboratories Ltd.

Properties

pH: 4.40

Viscosity: 3,000 to 5,000 cst.

Estimated SPF value available upon request.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

DOUBLE ACTION RINSABLE PEEL WITH GLYACID®

The two most effective peeling methods are mechanical and chemical. Imagine a product combining both: the well recognized action of the smallest Alpha Hydroxy Acid (AHA) **GlyAcid®** and ecological exfoliating beads from our **BergaScrub** range. The transparency of this formulation will make it even more appealing to the consumer.

Phase A	INCI Name	% (w/w)
Sodium Laureth Sulfate 70%	Sodium Laureth Sulfate	10.00
Cocamidopropyl Betaine 30%	Cocamidopropyl Betaine	10.00
EDTA	Tetrasodium EDTA	0.10
BergaSoft DG 50[1]	Decyl Glucoside	2.50
Glycerin	Glycerin	2.00
Demineralized Water	Aqua	≤ 100.00
Phase B		
CarbopolAqua SF – 2[3]	Acrylates Crosspolymer-4	5.00
Phase C		
NaOH	Sodium Hydroxide	up to pH 7
Phase D		
GlyAcid® 70 HP[2]	Glycolic Acid (and) Water	2.90
NaOH	Sodium Hydroxide	up to desired pH
Phase E		
BergaScrub 400[1]	Hydrogenated Castor Oil	1.00
Preservative/Fragrance	–	q.s.

Procedure

Weigh **Phase A** and stir until homogeneous. Add **Phase B** to Phase A. Neutralize with **Phase C**. Weigh **Phase D** and adjust to desired pH, add the solution to previous mixture drop by drop. Add **Phase E** slowly at the end to avoid mixing air with the formulation and to allow it to remain transparent.

Suppliers

[1]**Berg + Schmidt,** [2]**CrossChem** distributed by Berg + Schmidt, [3]Lubrizol

Properties

pH: 4.8

Viscosity: (24H) = 6800 Cps

Stability under progress: Intern ID: RPO K146

FORMULATION PROVIDED BY:

Berg+Schmidt
Care Ingredients
Our knowledge. Your formulations.

For more information, contact **berg-schmidt.de**

DEEP CLEANsing PURIFYING GEL

Enjoy a deep **GlyAcid**® clean with the purifying properties of Tea Tree in this refreshing treatment.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	≤ 100.00
Sodium Glyconate[1]	Sodium Glyconate	0.10
MG-60[1]	Maltooligosyl Glucoside (and) Hydrogenated Starch Hydrolysate	3.00
Glucomate DOE 120	PEG-120 Methyl Glucose Dioleate	2.00
Mackol® CAS 100N[1]	Sodium Coco-Sulfate	10.00
Phase B		
Miranol® Ultra L-32[1]	Sodium Lauroamphoacetate	7.00
Miratain® BET C-30 NP[1]	Cocamidopropyl betaine	8.00
Phase C		
Salicylic Acid[1]	Salicylic Acid	0.50
Zemea® Propanediol	1,3-Propanediol	5.00
Alcohol	Alcohol	3.00
Phase D		
GlyAcid® 70 HP[2]	Glycolic Acid (and) Water	1.00
Preservative	Preservative	0.50
Phase E		
2026919 Purifying Tea Tree[1]	Fragrance	0.20
Alkamuls® CRH40	PEG-40 Hydrogenated Castor Oil	0.60
Phase F		
25% NaOH (5.0-5.5)	Sodium Hydroxide	0.70

Procedure

Phase A: Premix ingredients in phase A and heat up to 70-80°C, stir until clear. **Phase B:** Add phase B to phase A, stir until homogeneous. Phase C & D: Add **Phase C** & **Phase D** into phase AB and stir until homogeneous. **Phase E:** Premix phase E and add to phase ABCD and stir until homogeneous. Adjust pH to 5.0 - 5.5.

Suppliers

[1]**Brenntag**, [2]**CrossChem di**stributed by Brenntag

Properties

pH: 5.1

Internal Ref: LCS20190102

FORMULATION PROVIDED BY:

BRENNTAG

For more information, contact **brenntag.com**

SLICK GLYCERIN SHAVE SOAP

This solid shaving soap turns a morning routine into a spa experience. **GlyAcid® 70 HP** exfoliates, Jojoba butter softens and soothes the skin. The mildness of **Endinol® B-SF65** helps reduce irritation. Wet the shaving brush and then swirl it vigorously across the bar until bristles are coated. Brush the cheeks and neck to form a dense and stable lather that helps a razor glide. Accessorize this shaving soap with a special shaving brush, a stone shaving scuttle and a brand medallion on the bar.

Phase A	INCI Name	% (w/w)
Glycerin 99.7% USP[1]	Glycerin	20.00
Dipropylene Glycol[1]	Dipropylene Glycol	5.00
Endinol® MILD B-SF65	Sodium Cocoyl Isothionate (and) Cocamidopropyl Hydroxysultaine (and) Lauryl Glycoside (and) Cocamidopropylamine Oxide (and) Caprylyl/Capryl	30.00
Phase B		
Stearic Acid1	Stearic Acid	13.00
Myristic Acid1	Myristic Acid	6.00
JD Jojoba Colorless Butter V[1,2]	Simmondsia Chinensis (Jojoba) Seed Oil (and) Beeswax (and) Hydrogenated Vegetable Oil	6.00
Phase C		
Deionized Water	Aqua	8.70
Sodium Hydroxide (100%)	Sodium Hydroxide	3.00
Endiquest® GLDA[1]	Tetrasodium Glutamate Diacetate	1.00
Phase D		
GlyAcid® 70 HP[1,3]	Glycolic Acid (and) Aqua	2.00
Sodium Hydroxide (30%) w/w	Sodium Hydroxide	q.s.
Phase E		
Deionized Water	Aqua	5.00
Titanium Dioxide 3328	Titanium Dioxide	1.00

Procedure

Phase A: With proper personal protective equipment (PPE), add Phase A to main vessel. Heat to 60˚C with moderate mixing. **Phase B:** Add Phase B to Phase A and heat to 68°C. Mix until disolved. **Phase C:** Add Phase C in a separate vessel. **Phase D:** In a third vessel, create Phase D by neutralizing GlyAcid® 70 HP with sodium hydroxide 30% soltion to pH 7.0 to 8.0. Add Phase D to Phase C. Add Phase CD to Phase AB slowly to avoid forming large clumps of soap. Phase E: Disperse titanium dioxide into water form Phase E and add to Phase ABCD. Mix until homogeneous. Let vessel stand for one hour at 68°C. Test pH with a 10% solution. When pH is confirmed, pour into soap molds and allow to sit undisturbed for 24 hours before use.

Suppliers

[1]**Coast Southwest, Inc.,** [2]Jojoba Desert (A.C.C.S.), [3]CrossChem

Properties

pH: 9.0 - 10.0

Viscosity: n.a.

Internal Ref: CSW 012-25

FORMULATION PROVIDED BY:

CoastSouthwest™

For more information, contact **coastsouthwest.com**

OVERNIGHT MIRACLE MASK

An overnight facial mask for refreshed and refined skin. **GlyAcid® 70 HP** stimulates cell turnover, smooths acne-related scars and helps refine skin texture. **BergaCare SB** provides intense and natural care. **BergaCare FG Olive** gives a non-tacky, caring feel.

Phase A	INCI Name	% (w/w)
Demineralized Water	Aqua	≤ 100.00
Glycerin	Glycerin	2.00
Polyglyceryl-3 Palmitate	Polyglyceryl-3 Palmitate	3.00
Agenaflo 90502	Corn Starch Modified	1.00
Carbopol Ultrez 304	Carbomer	0.10
Propylene Glycol	Propylene Glycol	1.00
Xanthan Gum	Xanthan Gum	0.0
Phase B		
BergaCare SB[1]	Butyrospermum Parkii (Shea) Butter	2.00
BergaCare FG Olive[1]	Hydrogenated Ethylexyl Olivate (and) Hydrogenated Olive Oil Unsaponifiables	2.00
BergaBest GS 40[1]	Glyceryl Stearate	2.00
Bergazid 98 18[1]	Stearic Acid	1.00
Cera Alba	Cera Alba	2.00
Stearyl Alcohol	Steary Alcohol	1.00
Soybean Oil	Glycine Soja (soybean) Oil	1.00
Apricot Kernel Oil	Prunus Armenicaca Kernel Oil	1.00
Dicaprylyl Ether	Dicaprylyl Ether	1.00
Phase C		
GlyAcid® 70 HP[1,4]	Glycolic Acid (and) Aqua	1.70
NaOH (25% Solution)	Sodium Hydroxide	2.00
Phase D		
Preservative/Fragrance		q.s.

Procedure

Phase A: Weigh water and glycerine and add Carbomer on top. Wait five minutes (wetting time). Start stirrer and add all other raw materials of Phase A. **Phase B:** Weigh Phase B and heat both phases up to 75°C. Add Phase B to Phase A while stirring and homogenize for 30 seconds. **Phase C:** Cool down to 40°C, then add Phase C while stirring and preserve.

Suppliers

[1]Berg + Schmidt, [2]Agrana, [3]**CrossChem** distributed by Berg + Schmidt, [4]Lubrizol

Properties

Note: For optimal effectiveness of GlyAcid®, we recommend working with a pH between 3.8 and 4.3

pH: 4.0

Viscosity: 4,340

Internal Ref: GM 001-SDI

FORMULATION PROVIDED BY:

Berg+Schmidt
Care Ingredients
Our knowledge. Your formulations.

For more information, contact **berg-schmidt.de**

BERRY SMOOTHIE BRIGHTENING CREAM

This non-abrasive, leave-on exfoliant cream brightens skin for an overall improvement in complexion and evenness of skin tone. **GlyAcid® 99 HP**, a high purity glycolic acid in 99% crystalline form, gently exfoliates. **Endimate® IPM** and **Endicare® TN** promote a smooth spreading and wetting of the cream, while reducing greasiness and imparting a dry, emollient feel.

Phase A	INCI Name	% (w/w)
Safflower Oil[1]	Carthamus Tinctorius (Safflower) Seed Oil	2.00
Colorless Jojoba Oil[1,2]	Simmondsia Chinensis (Jojoba) Seed Oil	4.00
Vitamin E Acetate[1]	Tocopheryl Acetate	0.50
Endimate® 33V[1]	Caprylic/Capric Triglyceride	4.00
Endimate® IPM[1]	Isopropyl Myristate	3.00
Endicare® TN[1]	C12-15 Alkyl Benzoate	2.00
Phase B		
Olivatis™ 12[1,3]	Polyglyceryl-3 Pentaolivate	7.00
Creabase MSO[1,4]	Limnanthes Alba (Meadowfoam) Seed Oil (and) Cera Alba (and) Hydrogenated Meadowfoam Seed Oil	1.50
Sunflower Wax[1]	Helianthus Annuus (Sunflower) Seed Oil	0.25
Phase C		
Deionized Water	Aqua	63.95
Dissolvine® NA2-S[1,5]	Disodium EDTA	0.20
Glycerin[1]	Glycerin	1.00
Propylene Glycol[1]	Propylene Glycol	3.50
GlyAcid® 99 HP[1,6]	Glycolic Acid	4.00
NaOH 40% aq. Solution	Sodium Hydroxide	q.s.
Nordic Beauty® Lingonberry Dispersion[1,4]	(Water (and) Vaccinium Vitis-Idaea Fruit Extract (and) Maltodextrin (and) Sodium Benzoate (and) Potassium Sorbate)	1.50
NaCl (Sodium Chloride)	Sodium Chloride	0.60
Sharomix **EG14**[1,7]	(Ethylhexylglycerin (and) Phenoxyethanol)	1.00

Procedure

Phase A: In main vessel, mix ingredients heating to 70-75ºC. **Phase B:** Once at desired temperature, add phase B to phase A with continuous mixing. **Phase C:** Disperse Phase C in a separate vessel until a uniform mixture is formed. Adjust pH of GlyAcid® using NaOH to pH above 4.2. Add Phase C to Phase AB slowly under agitation of 500-600 rpm while maintaining the temperature above 70ºC. Adjust the mixing speed to combine the two phases with a small vortex. Continue mixing the solution for 15 to 20 minutes until fully uniform. Switch to homogenizer and homogenize for 30 seconds at 3.0 rpm while the emulsion is still at 70ºC.

Suppliers

[1]**Coast Southwest, Inc.** [2]Jojoba Desert, [3]Medolla Limited, [4]The Innovation Company®, [5]AkzoNobel Functional Chemicals LLC, [6]**CrossChem**, [7]Sharon-Laboratories, Ltd.

Properties

pH: n/a

Viscosity: Spindle 6 @ 12 rpm = 23,330 cst

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

BRIGHTENING CRÈME CLEANSER

This cleanser utilizes **GlyAcid®** for gentle exfoliation to reveal an instantly brighter-looking complexion. The sugar-based **Glucotain® Care** imparts emolliency and lubricity to the foam, leaving a pampered and pleasant skin feel after washing, without excessive dryness.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	55.20
Dissolvine® 100-S[1,2]	Tetrasodium EDTA	0.20
Chembetaine™ CAS Surfactant[1,3]	Cocamidopropyl Hydroxysultaine	10.00
Hostapon® SCI-85[1,4]	Sodium Cocoyl Isethionate	6.00
Endinol® MILD CC-1250[1]	Coco-Glucoside	3.00
GlucoTain® Care[1,4]	Cocoyl Methyl Glucamide	5.00
Phase B		
Olive Oil[1]	Olea Europaea (Olive) Fruit Oil	4.00
Refined Avocado Oil[1]	Persea Gratissima (Avocado) Oil	3.00
Stearic Acid[1]	Stearic Acid	4.00
Endimulse® EGMS[1]	Glycol Stearate	3.00
Myristic Acid[1]	Myristic Acid	0.80
Palmitic Acid[1]	Palmitic Acid	1.50
Phase C		
NaOH 40% aq.	Sodium Hydroxide	0.80
Phase D		
GlyAcid® 70 HP[1,5]	Glycolic Acid (and) Aqua	1.70
NaOH 40%	Sodium Hydroxide	q.s.
Phase E		
Sharomix 706[1,6]	Dehydroacetoc Acid (and) Benzoic Acid (and) Benzyl Alcohol	0.80
Phase F		
Olivatis™ 15[1,7]	Olive Oil Glycereth-8 Esters	1.00%
Fragrance	Fragrance	q.s.

Procedure

Phase A: Mix Phase A ingredients in formula order into main vessel with heating to 70ºC-75ºC. Mix until fully uniform. **Phase B:** In a separate vessel, combine Phase B ingredients with propeller mixing and begin heating to 70ºC-75ºC. Add Phase B to Phase A with continued mixing. Mix until fully dispersed and uniform. **Phase C:** Add Phase C to Phase AB until desired pH is achieved. Begin cool down. **Phase D:** In a separate vessel, combine Phase D ingredients with continuous mixing. Note: Allot time for NaOH to neutralize glycolic acid above pH 4.2. Once Phase ABC is below 40ºC, add Phase D to Phase ABC. **Phase E:** Add Phase E to Phase ABCD with continuous mixing. **Phase F:** Combine Phase F ingredients and add to Phase ABCDE.

Suppliers

[1]**Coast Southwest, Inc.**, [2]AkzoNobel Functional Chemicals LLC, [3]Lubrizol Advanced Materials, [4]Clariant, [5]**CrossChem,** [6]Sharon Laboratories, Ltd., [7]Medolla Limited

Properties

pH: 6.0-6.5

Viscosity: Spindle 4 @10 rpm = 12,000-14,000 cst.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

CITRUS MORNING BURST CLEANSER

This natural cleanser has orange peel and **GlyAcid®** for mild exfoliation. Sodium Coco-Sulfate delivers a mild cleaning. Avocado Oil, Shea Butter, and Olive Ester emulsifiers create a gel cream texture.

Phase A	INCI Name	% (w/w)
Deionized Water		59.50
Endinol® SCS[1] (Sodium Coco-Sulfate)	Aqua	10.00
Phase B		
Sorbitol 70%	Sorbitol	10.00
GlyAcid® 70 HP[1,2]	Glycolid Acid	1.00
Endicare® CitraBlend Orange (400 mesh)	Citrus Sinensis (Orange) Peel Powder	3.00
Endimate® 33V[1]	Caprylic/Capric Triglyceride	5.00
Phase C		
Avocado Oil	Persea Grratissima (Avocado) Oil	2.50
Shea Butter	Butyrospermum Parkii (Shea Butter) Fruit	2.00
Olivatis 18[1,3]	Olive Oil Polyglyceryl-6 (and) Sodium Stearoly Lactylate (and) Cetearyl Alcohol	5.00
Phase D		
Biosecur C160S[1,4]	Citrus Extract	2.00
Phase E		
Essential Oil Blend		q.s.

Procedure

Phase A: Mix Phase A with propeller mixing; heat mixture to 104°F (40°C). Add Sodium-Coco Sulfate. Continue to heat and mix until 158°F (70°C). **Phase B:** In side vessel, mix Phase B into a thick paste. Add to Phase A at 122°F (50°C) when the Sodium-Coco Sulfate is uniform and homogeneous. Once Phase AB is homogeneous, hold at temperature. **Phase C:** In side vessel weigh and mix Phase C until homogeneous. Once Phase AB and Phase C are at temperature, add Phase C to Phase AB with increased speed on prop mixing (700 rpm) for 1 to 2 minutes. Transfer to homogenizer and mix at 2,500 to 3,000 RPM for 1 to 2 minutes. Mixture should turn into a light yellow color. Discontinue aggressive mixing and cool with stirring prop to 104°F (40 °C). **Phase D:** Add the preservative in Phase D. **Phase E:** Add essential oil blend (optional). Cool to 30°C then transfer to holding vessel.

Suppliers

[1]**Coast Southwest, Inc.,** [2]**CrossChem,** [3]Medolla Limited, [4]Sharon Laboratories Ltd.

Properties

pH: 6.5

Viscosity: Spindle 4 @ 60 rpm = 1,913 cst.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

FACE MASK TREATMENT

This 10-minute mask delivers glycolic acid and moisturizes with a cooling sensation.

Phase A	INCI Name	% (w/w)
Deionized Water	Aquan	61.90
Dissolvine® 220-S[1,2]	Tetrasodium EDTA	0.20
Sorbitol 70%	Sorbitol	8.00
GlyAcid® 70 HP[1,3]	Glycolic Acid (and) Aqua	1.40
Phase B		
Ultrastarch P212C[1,4]	ZEA Mays (Corn) Starch	10.00
Pelavie® Pink Clay[1,5]	Bentonite	10.00
Phase C		
Hydrasoft® Sea[1,2]	Water (and) Algae Extract (and) Natto Gum (and) Phenoxyethanol (and) Chiorphenesin (and) Citric Acid	4.00
Creagel® Crystal HPB[1,5]	Hydrogenated Polylsobutene (and) Ethylene/Propylene Copolymer	1.00
Phase D		
Sharomix 705[1,6]	Benzoic (and) Sorbic Acid (and) Dehydroacetic Acid (and) Benzyl Alcohol	1.00
Phase E		
Endicare® ETP-305[1]	Polyacrylamide (and) C13-14 soparafiin (and) Laureth-7	2.25

Procedure

Phase A: In main vessel, add Phase A; mix and heat to 122°F (50°C) and hold. **Phase B:** In side vessel, combine Phase B and then add slowly to Phase A. Increase speed as needed so powder is wetted out and dispersed; batch will thicken. **Phase C:** In side vessel, blend Phase C and add to Phase AB. Once uniform, begin cooling to 104-113°F (40-45°C) with slow prop or sweep. **Phase D:** At 104-113°F (40-45°C) add Phase D to Phase ABC, continue cooling to 77-86°F (25-30°C). **Phase E:** Add Phase E to Phase ABCD. Initially batch will be discontinuous. Continue mixing and the batch will become uniform. Stop when the batch is thick and homogeneous.

Suppliers

[1]**Coast Southwest, Inc.,** [2]Akzo Nobel Functional Chemicals LLC, [3]**CrossChem,** [4]Ultra Chemical, Inc., [5]The Innovation Company®, [6]Sharon Laboratories Ltd.

Properties

pH: 3.73

Viscosity: Spindle 5 @ 0.5 rpm = 692,000 cst.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

PORE REFINING WIPE

Pore refining wipe cleanses the skin and helps tighten pores. It is wonderful for oily skin. It will remove impurities without overly drying the skin.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	62.15
Dissolvine® GL-47-S[1,2]	Tetrasodium Glutamate Diacetate	0.10
3V Allantoin[1,3]	Allantoin	0.05
Glycerin[1]	Glycerin	5.00
Phase B		
Enditeric® COAB[1]	Cocamidopropyl Betaine	8.00
Sopalteric CBS[1,4]	Cocamidopropyl Hydroxysultaine	8.00
Endisil® FS-193[1]	PEG-12 Dimethicone	1.50
Polysorbate 20[1]	Polysorbate 20	3.00
GlyAcid® 70 HP[1,5]	Glycolic Acid (and) Aqua	2.00
Phase C		
Canasol R 4000 H[1,6]	PEG-40 Hydrogenated Castor Oil	1.00
Cayoma® Olive[1,7]	Aqua (and) Olea Europaea Leaf Extract (and) Alcohol (and) Maltodextrin (and) Olea Europaea Extract	0.20
Phase D		
Sharomix 703[1,8]	Benzyl Alcohol (and) Potassium Sorbate (and) Sodium Benzoate (and) Water	1.00
Phase E		
Olivatis™ 15[1,9]	Olive Oil Glycereth-8 Esters	8.00
NaOH 0.5N	Sodium Hydroxide	q.s.

Procedure

Phase A: Add Phase A in order until homogeneous. **Phase B:** Add Phase B in order to Phase A until homogeneous. **Phase C:** Pre-mix Phase C and add to Phase AB. Note: Allot time for ingredients to get into solution. **Phase D:** Add Phase D and Phase ABC and check pH. **Phase E:** Neutralize Phase ABCD with NaOH 0.5N to pH of 4.0 before adding Olivatis™ 15 with continuous mixing. Transfer to a holding vessel once uniform.

Suppliers

[1]**Coast Southwest, Inc.,** [2]Akzo Nobel Functional Chemicals LLC, [3]3V Sigma- eno, [7]The Innovation Company®, [8]Sharon Laboratories Ltd., [9]Medolla Limited

Properties

pH: 4.01

Viscosity: Spindle 2 @ 100 rpm = <100.00 cst.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

2 IN 1 FACIAL MASK FOR OILY SKIN

This 2 in 1 facial mask makes the pores finer and renews the cells with **GlyAcid® 70 HP. BergaSom Soy 50** and **BergaCare SB** give extra care and a luxurious appearance. Despite the many care ingredients, BergaCare FG 5 makes the mask feel light on the skin, while **BergaMuls ET 1** provides a silky feeling.

Phase A	INCI Name	% (w/w)
Demineralized Water	Aqua	≤ 100.00
Glycerin 99.5%	Glycerin	6.00
Xanthan Gum	Xanthan Gum	0.50
Phase B		
BergaCare SB[1]	Butyrospermum Parkii Butter	2.00
BergaBest MCT 60/40[1]	Caprylic/Capric Triglyceride	4.00
BergaCare FG 5[1]	Ethylhexyl Palmitate (and) Ethylhexyl Stearate (and) Hydrogenated Olive Oil Unsaponifiables (and) Caprylic/Capric Triglyceride	4.00
BergaMuls ET 1[1]	ß-Glucan (and) Pectin	3.00
Behenyl Alcohol	Behenyl Alcohol	4.00
Bergazid C1499[1]	Myristic Acid	2.00
Phase C		
Glycerin 99.5%	Glycerin	10.00
BergaSom Soy 50[1]	Lecithin	0.20
Phase D		
Kaolin	Kaolin	10.00
Phase E		
GlyAcid® 70 HP[2]	Glycolic Acid (and) Aqua	Adjust pH ~4
Preservative / Fragrance		q.s.

Procedure

Weigh **Phase A** and heat to 75°C while stirring. Proceed likewise with Phase B but without BergaMuls ET 1, heat to 75°C and then add BergaMuls ET while stirring. Add **Phase B** to Phase A while stirring and homogenize 30 seconds. Separately, weigh **Phase C** and dissolve while stirring. Cool down to 40°C while mixing and add **Phase D.** Adjust the pH with GlyAcid® 70 HP (pH 4) and add preservative.

Suppliers

[1]**Berg + Schmidt,** [2]**CrossChem** distributed by Berg + Schmidt

Properties

pH: 4

Viscosity: (24H) = n.a.

Internal Ref: GM-004-BSC

FORMULATION PROVIDED BY:

Berg+Schmidt
Care Ingredients
Our knowledge. Your formulations.

For more information, contact **berg-schmidt.de**

PURIFYING GENTLE FOAM WASH WITH GLYACID®

This Face Wash does not only cleanse the skin with the mild surfactant BergaSoft DG 50, it also contains a high concentration of **GlyAcid® 70 HP** which can stimulate the skin's cell turnover, leading to a smoother, more radiant skin. BergaSom Sun 50 serves as an active ingredient, mimicking the skin's own lipids for an improved skin condition.

Phase A	INCI Name	% (w/w)
Demineralized Water	Aqua	≤ 100.00
BergaSoft DG 50[1]	Decyl Glucoside	3.00
Glycerin 99.5%	Glycerin	1.00
1.3-Butylene Glycol	Butylene Glycol	1.00
Polysorbate-60	Polysorbate-60	0.20
BergaSom Sun 50[1]	Lecithin	0.10
D-Panthenol	Panthenol	0.50
Phase B		
GlyAcid® 70 HP[2]	Glycolic Acid (and) Aqua	20.00
NaOH solution (25%)	Sodium Hydroxide	13.50
Phase C		
Preservative/fragrance		q.s.

Procedure

Weigh and dissolve all raw materials from **Phase A**. Separately weigh and mix **Phase B** and add to A while stirring. Adjust pH and add the **Phase C** preservative.

Suppliers

[1]**Berg + Schmidt,** [2]**CrossChem** distributed by Berg + Schmidt

Properties

Note: For optimal effectiveness of GlyAcid®, we recommend working with a pH between 3.8 and 4.3

pH: 3.8

Viscosity: (24H) = n.a.

Internal Ref: WS-010-BSC

FORMULATION PROVIDED BY:

Berg+Schmidt
Care Ingredients
Our knowledge. Your formulations.

For more information, contact **berg-schmidt.de**

FOAMING FACIAL CLEANSER

GlyAcid® 70 HP in this foaming facial cleanser makes the pores finer while BergaSoft DG 50 provides very mild cleansing. It is ideal for preparing the skin to absorb the active ingredients in subsequent care products.

Phase A	INCI Name	% (w/w)
Demineralized Water	Aqua	≤ 100.00
BergaSoft DG 50[1]	Decyl Glucoside	2.00
GlyAcid® 70 HP[2]	Glycolic Acid and water	2.00
Sodium Laureth Sulfate 70%	Sodium Laureth Sulfate	1.00
Butylene Glycol 1.3	Butylene Glycol 1.3	1.00
Sorbitol 70%	Sorbitol	1.00
Sodium Cocoamphoacetate	Sodium Cocoamphoacetate	0.30
D-Panthenol	Panthenol	0.50
Allantoin	Allantoin	0.20
Polysorbate 60	Polysorbate 60	0.20
Sodium Hydroxide	Sodium Hydroxide	Adjust pH ~4
Menthol	Menthol	0.10

Phase B		
Preservative / Fragrance	–	q.s.

Procedure

Weigh all **Phase A** raw materials and stir without heating. Add **Phase B** preservative and fragrance

Suppliers

[1]**Berg + Schmidt,** [2]**CrossChem** distributed by Berg + Schmidt

Properties

pH: 4.0

Viscosity: (24H) = n.a.

Internal Ref: WS-007-BSC

FORMULATION PROVIDED BY:

Berg+Schmidt
Care Ingredients
Our knowledge. Your formulations.

For more information, contact **berg-schmidt.de**

VITALIZING NIGHT PEELING CREAM

GlyAcid® 70 HP stimulates cell turnover, smooths the skin and refines the skin texture overnight for a dazzling result the next morning.

Phase A	INCI Name	% (w/w)
BergaBest GS SE[1]	Glyceryl Stearate	3.50
Cetearyl Alcohol	Cetearyl Alcohol	2.00
Carbopol Ultrez 30[3]	Carbomer	1.00
Ceteareth 20	Ceteareth 20	1.00
MicroCare M8100	Caprylyl Methicone	4.00
Cyclopentasiloxane (and) Dimethicone / Vinyl Dimethicone Crosspolymer	Cyclopentasiloxane (and) Dimethicone / Vinyl Dimethicone Crosspolymer	5.00
Dimethicone	Dimethicone	5.00
Phase B		
Demineralized Water	Aqua	≤ 100.00
Glycerin	Glycerin	1.00
Pentylene Glycol	Pentylene Glycol	2.00
Phase C		
GlyAcid® 70 HP[2]	Glycolic Acid (and) Water	10.70
NaOH	Sodium Hydroxide	adjust pH
Phase D		
Preservative / Fragrance		q.s.

Procedure

Weigh Phase A and Phase B and heat to 75°C. Add Phase B to Phase A under stirring, homogenize. Adjust pH of Phase C as desired. When temperature reached 40°C, slowly add Phase C. Add Phase D.

Suppliers

[1]**Berg + Schmidt,** [2]**CrossChem** distributed by Berg + Schmidt

Properties

pH: 4,0

Viscosity: (24H) = 15000 Cps

Stability under progress

Internal Ref: RPO G022

FORMULATION PROVIDED BY:

Berg+Schmidt
Care Ingredients
Our knowledge. Your formulations.

For more information, contact **berg-schmidt.de**

MOISTURIZING AFTER SHAVE LOTION

This refreshing after shave contains **GlyAcid® 70 HP** to prevent the formation of ingrown hair after shaving and to stimulate skin cell renewal. BergaCare FG 5 contributes to a silky and light skin feeling.

Phase A	INCI Name	% (w/w)
Demineralized Water	Aqua	Up To 100%
Glycerin	Glycerin	4.0
Menthol	Menthol	0.1
Xanthan Gum	Xanthan Gum	0.3
Carbopol Ultrez 20[3]	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.5
Phase B		
BergaCare FG 5[1]	Ethylhexyl Palmitate (and) Ethylhexyl Stearate (and) Hydrogenated Olive Oil Unsaponifiables (and) Caprylic Capric Triglyceride	4.0
SternOil HCO 40[1]	PEG-40 Hydrogenated Castor Oil	2.0
BergaBest GS SE[1]	Glyceryl Stearate SE	2.0
Phase C		
GlyAcid® 70 HP[2]	Glycolic Acid (and) Aqua	4.0
Demineralized Water	Aqua	10.0
Phase D		
NaOH	Sodium Hydroxide	adjust pH
Phase E		
Ethanol	Alcohol Denat.	3.0
Preservative/Fragrance	–	q.s.

Procedure

Weigh water and Glycerin, start mixer and add all other raw materials from **Phase A.** Weigh all raw materials from **Phase B** and heat both phases up to ~70°C. Add Phase B to A while stirring and homogenize 30 seconds. Mix **Phase C** and add while stirring. Cool down to 40°C, adjust pH with **Phase D.** Add **Phase E** preservative and Ethanol.

Suppliers

[1]Berg + Schmidt, [2]CrossChem distributed by Berg + Schmidt, [3]Lubrizol

Properties

Note: For optimal effectiveness of GlyAcid®, we recommend working with a pH between 3.8 and 4.3

pH: 4.2

Internal Ref: After Shave-003-BSC

FORMULATION PROVIDED BY:

Berg+Schmidt
Care Ingredients
Our knowledge. Your formulations.

For more information, contact **berg-schmidt.de**

LIGHT CARING ANTI-ACNE CREAM

This Anti-Acne Cream contains a high and particularly effective concentration of **GlyAcid**® which stimulates the cell renewal process and smooths acne-induced scars. **BergaCare SB** and **BergaCare FG 5** provide care to the skin. **BergaMuls ET 1**, a blend of several natural plant fibers, stabilizes the cream while allowing an emulsifier-free declaration.

Phase A	INCI Name	% (w/w)
Demineralized Water	Aqua	≤ 100.00
Propylene Glycol	Propylene Glycol	2.00
Xanthan Gum	Xanthan Gum	0.50
Phase B		
BergaBest MCT 60/40[1]	Caprylic/Capric Triglyceride	3.00
BergaCare FG 5[1]	Ethylhexyl Palmitate (and) Ethylhexyl Stearate (and) Hydrogenated Olive Oil Unsaponifiables (and) Caprylic Capric Triglyceride	3.00
BergaSom Sun 50[1]	Lecithin	0.20
Stearyl Alcohol	Stearyl Alcohol	2.00
Bergazid 9818[1]	Stearic Acid	2.00
Cetearyl Alcohol	Cetearyl Alcohol	3.00
Cetyl Alcohol	Cetyl Alcohol	1.00
BergaCare SB[1]	Butyrospermum Parkii (Shea) Butter	2.00
BergaMuls ET 1[1]	Beta-Glucan (and) Pectin	2.00
Squalane	Squalane	1.50
Phase C		
GlyAcid® 70 HP[2]	Glycolic Acid (and) Water	15.00
Demineralized Water	Aqua	10.00
NaOH	Sodium Hydroxide	adjust pH
Phase D		
D-Panthenol	Panthenol	1.00
Preservative/Fragrance	-	q.s.

Procedure

Weigh water and Propylene Glycol, start mixer and add Xanthan Gum. Weigh all raw materials from **Phase B** except BergaMuls ET 1, heat both phases up to ~70°C. As Phase B has melted, disperse BergaMuls ET 1 under gentle stirring. Add **Phase B to A** while stirring and homogenize for 30 seconds. Add **Phase C** and then **Phase D.**

Suppliers

[1]**Berg + Schmidt**, [2]CrossChem distributed by Berg + Schmidt

Properties

Note: For optimal effectiveness of GlyAcid®, we recommend working with a pH between 3.8 and 4.3

pH: 3.8

Viscosity: (24H) = 5 800

Internal Ref: AA-004-BSC

FORMULATION PROVIDED BY:

Berg+Schmidt
Care Ingredients
Our knowledge. Your formulations.

For more information, contact **berg-schmidt.de**

LE CRÈME MOISTURIZER

COSMOS approved Ecogel delivers a gel-cream texture with **GlyAcid®** and compatible with electrolytes.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	73.45
1,2-Hexanediol[1]	1,2-Hexanediol	2.00
Disodium EDTA[1]	Disodium EDTA	0.10
Ecogel[1]	Lysolecithin, Sclerotium Gum, Xanthan Gum, Pullulan	1.50
Liponic EG-1[1]	Glycereth-26	3.00
Phase B		
Lipocol SC 1618S[1]	Cetearyl alcohol	1.00
Dub GMS[1]	Glyceryl stearate	0.70
Lipomulse 165[1]	Glyceryl Stearate, PEG-100 Stearate	2.00
Lipo SS[1]	Hydrogenated Vegetable Oil	2.00
Lipovol MOS-70[1]	Tridecyl Stearate (and) Neopentyl Glycol Dicaprylate/ Dicaprate (and) Tridecyl Trimellitate	7.00
Liponate SPS[1]	Cetyl Esters	0.75
Liponate MM[1]	Myristyl Myristate	0.50
SF1000N (6cst)[1]	Dimethicone	2.00
Phase C		
GlyAcid® 70 HP[1,2]	Glycolic Acid (and) Aqua	4.00
Phase D		
NaOH 25%[1]	Sodium Hydroxide	q.s.

Procedure

Phase A: In the main kettle, combine ingredients using a lightning mixer and heat to 78°C to 80°C. Mix until clear and uniform during 20 minutes. **Phase B:** Heat Phase B to 80°C and mix well. Slowly add Phase B to batch with medium to high speed propeller mixing. **Phase C:** At 45 - 50°C, add Phase C to batch with propeller mixing. **Phase D:** Cool to 25°C and adjust pH to 3.8 – 4.2.

Suppliers

[1]SEIL International, [2]**CrossChem,** distributed by SEIL International

Properties

pH: 3.8 – 4.2

Viscosity: Spindle 6 @ 20 rpm = 3000- 5000cps

FORMULATION PROVIDED BY:

SEIL INTERNATIONAL Ltd.

For more information, contact **seilint.com**

ILLUMINATING COCONUT CREAM CLEANSER

Brighten your day and your skin with this creamy cleanser formula. **Endinol® MILD B-SF65,** a mild, vegetable-derived surfactant blend, is free of sulfates and provides exceptional foaming and feel. Coconut Oil hydrates and moisturizes the skin, while Rosehip Oil repairs damaged skin and evens out skin tone. **GlyAcid® 70 HP** provides gentle exfoliation to reveal an instantly brighter-looking complexion.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	55.33
Endiquest® GLDA[1]	Tetrasodium Glutamate Diacetate	0.15
Endinol® MILD B-SF65[1]	Sodium Cocoyl Isethionate (and) Cocamidopropyl Hydroxysultaine (and) Lauryl Glucoside (and) Cocamidopropylamine Oxide (and) Caprylyl/Capryl Glucoside	24.00
Phase B		
Rosehip Oil[1,2]	Rosa Canina Fruit Oil	3.00
Coconut Oil[1,2]	Cocos Nucifera (Coconut) Oil	4.00
Stearic Acid[1]	Stearic Acid	4.00
Endimulse® EGMS[1]	Glycol Stearate	3.00
Myristic Acid[1]	Myristic Acid	0.80
Palmitic Acid[1]	Palmitic Acid	1.50
Phase C		
NaOH 40% w/w Solution	Sodium Hydroxide	0.80
Phase D		
SharoSENSE™ Plus 181[1,3]	Maltol (and) Polyquaternium-80	0.70
Phase E		
GlyAcid® 70 HP[1,4]	Glycolic Acid (and) Aqua	1.70
NaOH 40% w/w Solution	Sodium Hydroxide	1.02

Procedure

Phase A: Add Phase A ingredients in formula order to the main vessel with shear mixing and begin heating to 158-167°F (70-75°C). Mix until fully uniform. **Phase B:** In a separate vessel, add Phase B ingredients in formula order with propeller mixing and begin heating to 158-167°F (70-75°C). Once at desired temperature and fully uniform, add Phase B to Phase A under shear mixing. Mix until fully uniform and dispersed. **Phase C:** Add Phase C to Phase AB with shear mixing. Begin cool down. **Phase D:** When main vessel is at 122-140°F (50-60°C), add Phase D with shear mixing. Mix until fully dispersed and uniform. **Phase E:** In a separate vessel, combine Phase E ingredients with continuous mixing. Note: Reaction is exothermic. Allow time for neutralization above pH 4.2. Once main vessel is below 104°F (40°C), add Phase E with shear mixing. Transfer to final container when batch is fully uniform and at room temperature.

Suppliers

[1]**Coast Southwest, Inc.,** [2]International Cosmetic Science Centre (ICSC), [3]Sharon Laboratories Ltd., [4]CrossChem

Properties

pH: 6.0 – 6.5

Viscosity: Spindle 4 @ 5.0 rpm = 9,000 to 13,000 cst.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

SINGLE-SWEEP SMOOTHING AND DETOXIFYING GEL

This refreshing, detoxifying cream is rich in nutrients and moisturizers to soothe dry and irritated skin. **GlyAcid® 70 HP**, and alpha-hydroxy acid, provides gentle exfoliation to reveal an instantly brighter-looking complexion. **Olivatis® 21**, a natural-derived O/W emulsifier, improves smoothness.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	55.33
Glycerin 99.7% USP Kosher[1]	Glycerin	1.20
Endicare® DLP-50[1]	Panthenol	0.80
Medxtract Witch Hazel Distilled Organic[1,2]	HamamelisVirginiana (Witch Hazel) Leaf Water	5.20
EASYGEL SOL[1,3]	Carbomer	0.50
Phase B		
Endimate® 32V[1]	Caprylic/Capric Triglyceride	5.25
Olivatis 21[1,2]	Olive Oil PEG-6 Esters (and) Olive Oil Polyglyceryl-6 Esters	4.00
Endipure® Sweet Almond[1]	Prunus Amygdalus Dulcis (Sweet Almond) Oil	5.25
Phase C		
NaOH 10% w/w Solution	Sodium Hydroxide	0.80
Phase D		
GlyAcid® 70 HP[1,4]	Glycolic Acid (and) Aqua	1.70
Phase E		
Sharomix® 702[1,5]	Dehydroacetic Acid (and) Benzoic Acid (and) Phenoxyethanol	0.70
Fragrance		q.s.

Procedure

Phase A: Combine Phase A in main vessel under shear mixing. Note: Disperse polymer slowly. **Phase B:** Combine Phase B ingredients in separate vessel with continuous mixing. Once uniform, add Phase B to main vessel under shear mixing. **Phase C:** Add Phase C to main vessel under shear mixing. **Phase D:** Add Phase D to main vessel under shear mixing. Further adjust pH to within range, if necessary. **Phase E:** Add Phase E to main under continuous mixing. Once uniform, transfer to final container.

Suppliers

[1]**Coast Southwest, Inc.**, [2]Medolla Limited, [3]3V Sigma-USA. [4]**CrossChem,** [5]Sharon Laboratories Ltd

Properties

pH: 5.5 – 6.0

Viscosity: Spindle 4 @ 30 rpm = 4,000 to 5,000 cst.

Internal Ref: CSW 009-07

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

GLYACID® PRO PEEL

GlyAcid® 70 HP helps dissolve dead skin cells on the surface, providing superficial exfoliation. **Healerine®**, from reishi mushroom fermentation, helps skin integrity and continuity and increases optimum moisturizing levels. This formula should only be used by professionals.

Phase A	INCI Name	% (w/w)
GlyAcid® 70 HP[1,2]	Glycolic Acid (and) Aqua	40.00
NaOH 30% w/w Solution	Sodium Hydroxide	39.55
Phase B		
Deionized Water	Aqua	18.05
Phase C		
Sharomix 702[1,3]	Dehydroacetic Acid (and) Benzoic Acid (and) Phenoxyethanol	0.70
Propanediol	Propanediol	0.70
Phase D		
Hearline[1,4]	Aqua (and) Ganoderma Lucidum Extract (and) Propanediol (and) Xanthan Gum	1.00
Phase E		
NaOH 30% w/w Solution	Sodium Hydroxide	q.s.

Procedure

Phase A: With proper personal protective equipment (PPE), add Glyacid® 70 HP to main vessel. Slowly neutralize with Sodium Hydroxide 30% solution to pH 4.2 to 5.50. The reaction will be exothermic and generate heat. An ice bath may be used.
Phase B: Add Phase B to Phase A. **Phase C:** Premix Phase C and add to Phase AB when temperature is below 50°C.
Phase D: Add Phase D to Phase ABC. Phase E: If needed, adjust the final pH to 4.2 to 5.0 with Sodium Hydroxide 30% solution.

Suppliers

[1]**Coast Southwest, Inc.,** [2]**CrossChem,** [5]Sharon Laboratories Ltd, [4]Naturethic

Properties

pH: 4.2 - 5.0

Viscosity: n.a.

Internal Ref: CSW 012-042

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

PEARLY WHIPPED CLEANSER

This conditioning cleanser is rich in palm-derived ingredients. Its whipped texture and pearl-like sheen add to the cleaning experience. **Endinol® SCS** is an anionic natural surfactant derived from coconut oil that can impart mild conditioning. **GlyAcid® 70 HP** provides mild, face-friendly exfoliation.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	65.75
GlyAcid® 70 HP[1,2]	Glycolic Acid (and) Aqua	3.00
Triethanolamine 99%	Triethanolamine	q.s.
Allantoin[1,3]	Allantoin	1.00
Glycerin 99.7% USP[1]	Glycerin	6.00
Endinol® SCS[1]	Sodium Coco-Sulfate	4.50
Phase B		
Stearic Acid[1]	Stearic Acid	7.00
Palmitic Acid[1]	Palmitic Acid	6.00
Myristic Acid[1]	Myristic Acid	3.00
Cetyl Stearyl Alcohol[1]	Cetyl Stearyl Alcohol	0.50
Vitamin E Acetate[1]	Tocopheryl Acetate	2.00
Phase C		
Triethanolamine 99%	Triethanolamine	q.s.
Phase D		
Endicare® PQ-11[1]	Polyquaterium-11	0.75
Phenoxyethanol	Phenoxyethanol	0.50

Procedure

Phase A: Add water to main vessel and begin heating to 70-75°C. At 40-50°C with moderate mixing, add GlyAcid® 70 HP followed by Triethanolamine 99% to pH 4.00 to 4.50. Continue heating, add remaining portion of Phase A. **Phase B:** In separate side of vessel heat Phase B to 70-75°C until a uniform solution is formed. At 70-75°C, add Phase B to Phase A with homogenizing for 1 to 2 minutes. Combine to phases until uniform. **Phase C:** Add Phase C slowly to Phase AB to the desire pH, then begin to cool with slow sweep or propeller mixing. **Phase D:** At 40°C, premix Phase D and add mixture to Phase ABC. Cool to 25°C, then transfer to final vessel.

Suppliers

[1]**Coast Southwest, Inc.,** [2]**CrossChem**, [3]3V Sigma-USA

Properties

pH: 4.0 - 4.5

Viscosity: Spindle 5 @ 20.0 rpm = 8,000 to 11,000 cst

Internel Ref: CSW 12-030D

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

GO-TO GLYACID® TONER

Enhance your daily beauty routine with this gentle toner that exfoliates and works against clogged pores and blemishes. CrossChem's high-purity **GlyAcid® 70 HP** is designed specifically for today's personal care formulations. EndiMoist® HA Solution has been known to assist in skin moisturization, scavenge free radicals, and impart anti-inflammatory and anti-irritation properties. **Endicare® C** is a high-purity and stable vitamin C derivative with anti-oxidant, anti-inflammatory and collagen-building activity.

Phase A	INCI Name	% (w/w)
Deionized Water	Aqua	65.75
Endiquest® GLDA[1]	Tetrasodium Glutamate Diacetate	0.10
Glycerin 99.7% USP[1]	Glycerin	1.00
PEG 400 NF[1]	PEG-8	5.00
Phase B		
GlyAcid® 70 HP[1,2]	Glycolic Acid (and) Aqua	5.00
Sodium Hydroxide (30%) w/w	Sodium Hydroxide	q.s.
Phase C		
Sharomix 702[1,3]	Dehydroacetic Acid (and) Benzoic Acid (and) Phenoxyethanol	0.70
EndiMoist® HA Solution[1]	Sodium Hyaluronate	0.50
Endicare® C	Sodium Ascorbyl Phosphate	1.00

Procedure

Phase A: Add water to main vessel and begin heating to 70-75°C. With moderate mixing, add remaining portion of Phase A. **Phase B:** With proper personal protective equipment (PPE), add GlyAcid® 70 HP to side vessel. Slowly neutralize the GlyAcid® 70 HP with Sodium Hydroxide 30% solution to pH 4.50 to 5.50. the reaction will be exothermic and generate heat. An ice bath may be used. Add Phase B to Phase A. Once AB is at 70-75°C, discontinue heat. **Phase C:** At 40-50°C add Phase C to Phase AB and mix until dissolved.

Suppliers

[1]**Coast Southwest, Inc.**, [2]**CrossChem**, [3]Sharon Laboratories Ltd

Properties

pH: 4.5 - 5.5

Viscosity: n.a.

Internel Ref: CSW 12-039B

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

GLYACID® LIP MASQUE

Apply a thin layer of this fluid masque over the lips with a sculpted paddle or even the finger tip. The masque feels a tiny bit sticky and adheres to the lips in a comfortable way as it evens out and forms a light layer over the skin. It gently exfoliates, leaving lips kissably smooth.

Phase A	INCI Name	% (w/w)
DI Water	DI Water	81.30
Xanthan Gum	Xanthan Gum	0.90
Endilan™ E-51[1]	PEG-75 Lanolin	2.65
Phase B		
GlyAcid® 70 HP[1,2]	Glycolic Acid	5.00
Sodium Hydroxide	Sodium Hydroxide	q.s.
Phase C		
Endimate® 33V[1]	Caprylic/Capric Triglyceride	4.50
Beeswax	Beeswax	1.75
Alkest® SP83[1,3]	Sorbitan Sesquioleate	3.00
Phase D		
Sharomix 705[1,4]	Benzoic Acid (and) Sorbic Acid (and) Dehydroacetic Acid (and) Benzyl Alcohol	0.90
Peppermint Essential Oil	Mentha Piperita (Peppermint) Oil	q.s.

Procedure

Phase A: Add DI water to the main vessel. Disperse xanthan gum in the Endilan™ E-51, then add to the main vessel slowly with mixing. **Phase B:** Neutralize the GlyAcid® 70 HP to pH 4.50. When Phase A is dispersed and hydrated, add Phase B to Phase A. Begin heating to 70°C. **Phase C:** Weigh Phase C in a side vessel and begin heating to 70°C. When both Phase AB and Phase C are at 70°C, slowly add Phase C to Phase AB. Discontinue heat and begin cooling. **Phase D:** When product is at 40°C, add remaining ingredients.

Suppliers

[1]**Coast Southwest, Inc.,** [2]**CrossChem,** [3]Oxiteno, [4]Sharon-Laboratories Ltd.Properties

pH: 4.5 - 5.5

Viscosity: Spindle 4 @ 60 rpm = 2,000 to 3,000 cst.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

NOT YOUR DAD'S AFTER SHAVE

Banish razor bumps and irritated skin with this sensitive post-shaving skin treatment.

Phase A	INCI Name	% (w/w)
Deionized Wate	Deionized Water	69.40
1,3 Butylene Glycol[1]	Butylene Glycol	2.00
Allantoin[1,2]	Allantoin	0.50
Glycerin 99.7, USP[1]	Glycerin	4.00
EDTA	EDTA	0.10
Phase B		
Olivatis® 21[1,3]	Olive Oil Polyglyceryl-6 Esters (and) Olive Oil Polyglyceryl-6 Esters)	4.00
Dragonfruit Seed Oil[1,4]	Hylocereus Undatus (Dragonfruit) Seed	2.00
Baobab Oil[1,4]	Adansonia Digitata (Baobab) Oil	1.00
Goji Berry Seed Oil[1,4]	Lycium Barbarum Seed Oil	1.00
Jojoba Seed Oil[1,5]	Simmondsia Chinensis (Jojoba) Seed Oil	2.00
Phase C		
GlyAcid® 70HP[1,6]	Potassium Hydroxide	4.00
Phase D		
Rapidgel EZ-1[1,2]	PEG-6 (and) AMP-Acrylates/Vinyl Isodecanoate Crosspolymer	5.00
Phase E		
Healerine®[1,7]	Water, Ganoderma Lucidum Extract (and) Glycerin (and) Propanediol (and) Xanthum Gum	2.00
Lumiglow™[1,8]	Water (and) Glycerin (and) Aristotelia Chilensis Fruit Extract	2.00
Phase F		
Sharomix 706 Plus[1,9]	Dehydroacetic Acid (and) Benzoic Acid (and) Vitamin E (and) Benayl Alcohol)	

Procedure

Phase A: In main vessel add Phase A ingredients, Mix until clear and uniform. **Phase B:-** In a separate vessel add Phase B ingredients, mix until uniform. **Phase C**: In a separate vessel add Phase C and neutralize to pH >4.2. Add Phase B to Phase A; a milky white solution will result. Next add Phase C to Phase AB with moderate mixing. The mixture will gradually incorporate and become uniform. **Phase D:** Add Phase D to Phase ABC with moderate mixing. The mixture will gradually thicken. **Phases E/F:** OncecPhase ABCD thickens, add Phases E and F in order. Mix until uniform and transfer to final vessel

Suppliers

[1]**Coast Southwest Inc.,** [2] 3V Sigma USA, [3]Medolla Iberia S.L., [4]Ethox Chemicals,LLC., [5]Jojoba Desert, [6]**CrossChem LLC,** [7]Infinitec, [8]Novachem S.R.L., [9]Sharon-Laboratories Ltd.

Properties

pH: 6 – 6.5

Viscosity: #3 @10 rpm (25°C) - 6,000 to 8,000 cst.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

SEDUCTIVE SKIN-BRIGHTENING SERUM

Light the way to luminous skin and a glowing complexion with this brightening serum especially formulated with **GlyAcid® 70 HP**, a high-purity and formaldehyde-free, anti-aging ingredient that exfoliates and brightens the skin. The **EndiMoist® HA**, a rejuvenating active, delivers Sodium Hyaluronate, an essential component for skin elasticity and appearance.

Phase A	INCI Name	% (w/w)
Deionized Water	Deionized Water	73.40
[1,3] Butylene Glycol[1]	Butylene Glycol	2.00
Polysorbate 20[1]	Polysorbate 20	0.50
Glycerin 99.7 USP[1]	Glycerin	4.00
EDTA	EDTA	
Ethox OCTG[2]	Glycereth-18 Ethylhexanoate (and) Glycereth-18	5.00
Phase B		
GlyAcid® 70 HP[1,3]	Glycolic Acid	5.00
KOH (30% aq.)	Potassium Hydroxide	q.s.
Phase C		
Lumiglow™[1,4]	Water (and) Glycerin (and) Aristotelia Chilensis Fruit Extract	2.00
Phase D		
EndiMoist® HA Solution[1]	PEG-6 (and) AMP-Acrylates/Vinyl Isodecanoate Crosspolymer	6.00
Hydroxyethylcellulose	Hydroxyethylcellulose	1.00
Phase E		
Sodium Benzoate	Sodium Benzoate	0.50
Phenoxyethanol	Phenoxyethanol	0.50

Procedure

Phase A: In main vessel, add Phase A ingredients and mix until clear and uniform. Adding the Ethox OCTG will make the solution slightly hazy. **Phase B:** In a separate vessel, add Phase B ingredients and neutralize to pH >4.2. Mix until uniform. When mixed, add the solution to Phase A slowly until uniform. **Phase C:** Add Phase C to Phase AB. The mixture will gradually become red. **Phase D:** Add the Hydroxyethylcellulose slowly to Phase ABC. Allow the mixture to thicken. A low viscosity gel will begin to form. Add the remainder of Phase D. The mixture should become a uniform gel. **Phase E:** Add Phase E to Phase ABCD in order, insuring the Sodium Benzoate stays in solution. Transfer to suitable vessel upon completion.

Suppliers

[1]**Coast Southwest Inc.**, [2]Ethox Chemicals, LLC, [3]**CrossChem**, [4]Novachem S.R.L.

Properties

pH: 4 – 6.5

Viscosity: #3 @10 rpm (25°C) - 800 to 1,500 cst.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

TOUCH YOUR TOES AND SNAP YOUR HEELS FOOT BALM

Butter up the feet with this extra-emollient and exfoliating foot balm that kicks calluses and cracks to the curb. **Endimate® 163** provides mild, skin-softening emolliency, imparting a medium skin feel without tacky after-feel. High-purity **GlyAcid® 70 HP** is formaldehyde-free and helps hard-working feet stroll away from cracks and calluses.

Phase A	INCI Name	% (w/w)
Coast PVA-24 (10% aq.)[1]	Polyvinyl Alcohol	40.00
Sorbitol 70	Sorbitol	3.00
Ethox® OCTG[1,2]	Glycereth-18 Ethylhexanoate (and) Glycereth-18	3.00
Phase B		
GlyAcid® 70 HP[1,3]	Glycolic Acid	8.00
KOH (30%aq)	Potassium Hydroxide	q.s.
Phase C		
Lilac[1,4]	C12-22 Alkane	5.00
Endimate® 163[1]	Ethylhexyl Stearate(and)ethylhexyl Palmitate(and) Diethylhexyl Adipate	3.00
ECOROL® 18/98 P[1,5]	Stearyl Alcohol	3.00
PURETOL™ 7[1,6]	Mineral Oil	7.00
Phase D		
Paraffin Wax 1236	Paraffin wax	1.50
Microcrystalline Wax 5714A	Microcrystalline wax	0.75
Microcrystalline Wax 5788	Microcrystalline wax	15.75
Jojoba Golden Butter[1,7]	Simmondsia Chinensis (Jojoba) Seed Oil (and) C10-18 Triglycerides	3.00
Endimulse® GMS-SE[1]	Glyceryl Stearate	4.00
Phase E		
Sharomix™ 706 Plus[1,8]	Dehydroacetic Acid (and) Benzoic Acid (and) Tocopherol (and) Benzyl Alcohol	1.00

Procedure

Phase A: In main vessel, add Phase A and begin mixing and heating to 70ºC to 75ºC. **Phase B:** In seperate vessel, add GlyAcid® 70 HP and neutralize using the KOH solution to a pH of 4.2. At 50ºC to 60ºC, add Phase B to Phase A and continue to heat to 70ºC to 75ºC. **Phase C:** In another vessel, add Phase C and begin mixing and heating to 55ºC to 60ºC. **Phase D:** At temperature, add Phase D to Phase C. Dissolve the waxes into solution then add the remainder of Phase D. Continue to heat to 70ºC to 75ºC. Once both Phase AB and Phase CD have reached temperature, add Phase CD to Phase AB. Increase mixing as needed to make uniform and then discontinue heat. Begin cooling to 40 to 45ºC. **Phase E:** At temperature, add Phase E to Phase ABCD. Continue to cool to 25ºC to 30ºC. The solution should begin to increase in viscosity. At temperature, transfer to a suitable vessel and allow the formula to thicken overnight.

Suppliers

[1]**Coast Southwest, Inc.**, [2]Ethox Chemicals LLC, [3]CrossChem LP, [4]Sonneborn LLC, [5]Ecogreen Oleochemicals, [6]Petro-Canada Lubricants, [7]Jojoba Desert (A.C.S) Ltd, [8]Sharon Laboratories Ltd.

Properties

pH: 4.0 - 5.5

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

CREMA ANTIEDAD C/ ÁCIDO GLICÓLICO

Trabajará en la superficie más profunda de la piel para tratar las pequeñas arrugas, mejora la elasticidad de la piel enriquecida con ácido hialurónico de alto peso molecular, permite una hidratación intensa y duradera además de brindar una restructuración a la piel.

Fase	Nombre INCI	% (w/w)
1 A gua	Water	50.70
2 **Sintopol LSA 300**[1]	Sodium acrylate (and) acryloyldimethyl copolymer taurate(and) mineral oil (and) liquid paraffin (and) trideceth-6	3.20
3 Emulzome[2]	Mineral Oil (and) Hydrogenated Polyisobutene (and) Stearyl Heptanoate (and) Aqua	19.10
4 Epidermosil[2]	Hyaluronic Acid and Silanetriol	6.00
5 D.S.H.C.N.[2]	Dymethilsilanol Hyaluronato	6.00
6 Glicerina	Glycerin	2.50
7 Quiditat SRC[3]	Cocos Nucifera (Coconut) Fruit Extract (and) Hypnea Musciformis Extract(and) Gelidiella Acerosa Extract (and) Phenoxyethanol (and) Caprylyl Glycol (and) Sorbic Acid	10.00
8 Euxyl PE9010[4]	Phenoxyetanol and Ethylhexylglycerin	0.50
9 **GlyAcid® 99HP**[5]	Glycolic Acid	2.00

Procedimiento

1. Pesar ingredientes del 1 al 3 y 6 y agitar aproximadamente a 1500 RPM. **2.** Proceder a adicionar uno a uno el resto de los ingredientes sin dejar de agitar. **3.** Proceder a envasar.

Proveedores

[1]**Sintoquim,** [2]Exsymol, [3]Assessa, [4]Ashland, [5]**CrossChem**

Propiedades

pH: 3.59 – 5.5

Viscosidad: 2500 cp sp 64 / 20 rpm / 20 s

FORMULACIÓN APORTADA POR:

sintoquim
CIENCIA Y CONCIENCIA

Para más información contactar con **sintoquim.com**

SERUM BIFASICO

Serum anti edad con acido glicólico que reacciona con la capa superior de la epidermis y la exfolia, debilitando los enlaces lipídicos que mantienen unidas las células muertas de la piel.

Fase A	Nombre INCI	% (w/w)
Agua	Water	51.67
Glicerina	Glycerin	4.52
Epidermosil[1]	Hyaluronic Acid and Silanetriol	6.00
Quiditat NWP[2]	Cucumis Sativus (Cucumber) Fruit Extract, Kappaphycus Alvarezii Extract, Eucheuma Spinosum Extract, Phenoxyethanol and Ethylhexyl9lycerin	1.50
GlyAcid® 99HP[3]	Glycolic Acid	5.00
Euxyl PE90104	Phenoxyethanol (and) Ethylhexylglycerin	0.90

Fase B		
Dermol 99[5]	Isononyl Isononanoate	25.05
Bioelixir[6]	Dioleyl Tocopheryl Methylsilanol (and) Oley! Alcohol	4.52
Vitamina E	Dioleyl Tocopheryl Methylsilanol (and) Oleyl Alcohol	0.23
Ácido Salicílico[7]	Salicylic Acid	0.50

Procedimiento

1. Pesar e incorporar los ingredientes de la **Fase A** con agitación mecánica y calentamiento. **2.** Pesar e incorporar los ingredientes de l a **Fase B. 3.** Cuando Fase A se encuentre a 40° c incorporar con Fase B y envasar.

Proveedores

[1]Exsymol, [2]Assessa, [3]**CrossChem.,** [4]Ashland, [5]Alzo, [6]Aqia, [7]**Sintoquim**

Propiedades

pH: 4.5 – 5.5

Viscosidad: n.a.

FORMULACIÓN APORTADA POR:

sintoquim
CIENCIA Y CONCIENCIA

Para más información contactar con **sintoquim.com**

JABÓN EN BARRA

Incrementará la renovacion celular, la suavidad de la piel y disminuirá los niveles de acné en la piel. Mejora la apariencia de la piel, especialmente del rostro y cuello. Funciona como un exfoliante quimico. Estimula la produccion de colageno y elastina. Ayuda a combatir el acne evitando la formacion de comedones al mismo tiempo que promueve la regeneracion cutanea y estimulación de la sintesis de colageno I y III.

Fase	Nombre INCI	% (w/w)
1 Polybase SC[1]	Paraffin (and) Cocamide MEA (and) Cetearyl Alcohol (and) Sodium Lauryl Sulfate (and) Stearic Acid (and) Ricinus Communis (Castor) Seed Oil (and) PEG-20	77.53
2 Dermol SLLC[2]	Sodium acrylate (and) acryloyldimethyl copolymer taurate(and) mineral oil (and) liquid paraffin (and) trideceth-6	5.10
3 Plantaren 2000 N UP	Decyl Glucoside	2.49
4 Protachem HCO-25[3]	PEG-25 Hydrogenated Castor Oil	3.56
5 Trivent Mango Butter[2]	Mangifera Indica (Mango) Seed Butter	2.04
6 Actimulsi GA 20[4]	Acacia Senegal Gum Extract	5.10
7 Euxyl K830[5]	Phenoxyethanol (and) Ethylhexylglycerin (and) Octenidine HCl	0.10
8 **GlyAcid® 99HP**[6]	Glycolic Acid	1.02
9 Purester 24[7]	Lauryl Laurate	3.06

Procedimiento

Pesar todos los componentes, calenar hasta homogenización.

Proveedores

[1]Aqia, [2]Alzo, [3]Protameen, [4]Assessa, [5]Ashland, [6]**CrossChem,** [7]Strahl & Pitsch

Propiedades

pH: 6 – 6.5

Viscosidad: n.a.

FORMULACIÓN APORTADA POR:

sintoquim
CIENCIA Y CONCIENCIA

Para más información contactar con **sintoquim.com**

EXFOLIANTE AHA Y BHA

Promueve la exfoliación de la piel reduciéndo la aparición de líneas finas y arrugas, estimulando la renovación celular y fomentando la producción decolágeno y elastina para mejorar el tono de la piel, disminuye puntos negros generados por procesos inflamatorios, ademas de sus propiedades queratolíticas y comedolíticas.

Fase A	Nombre INCI	% (w/w)
Aqua	Aqua	≤ 100.00
Goma Xantana	Xanthan Gum	2.00
Acido Salicilico[1]	Salyicylic acid	0.20
Dermol BG[2]	Butylene Glycol	
Trivalin SF[2]	Ethoxydiglycol	1.50
Glicerina	Glycerin	2.00

Fase B		
Dermowax BB[2]	Behenyl Behenate	0.50
Acido Salicilico	Salyicylic acid	0.20
Sugar Squalane[3]	Squalane	4.37
Elefac™ I-205 [2]	Octyldodecyl Neopentanoate	1.65
Sintopol LSA 300[4]	Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer (and) Mineral Oil (and) Trideceth-6	2.91
Nikkolipid 81S[3]	Batyl Alcohol, Stearic Acid, Lecithin, Caprylic/CapricTriglyceride	5.83

Post Emulsión		
NaOH	Sodium hydroxide	csp
Quiditat NWP PE[5]	Cucumis Sativus (Cucumber) Fruit Extract, Hypne Musciformis Extract, Gelidiella Acerosa Extract, Phenoxy-ethanol and Ethylhexylglycerin	2.43
Euxyl PE9010[6]	Phenoxyethanol (and) Ethylhexylglycerin	0.87
Agua	Aqua	9.71
GlyAcid® 99 HP[7]	Glycolic acid	5.83

Procedimiento

1. Dispersar goma xantana en agua, Adicionar ácido salicílico solubilizado en Dermol BG y Trivalin SF. Adicionar glicerina.
2. Mezclar y fundir **Fase B** a 75°C. Adicionar a **Fase A** a la misma temperatura y agitar a 700 rpm por 10 minutos. Neutralizar con hidróxido de sodio hasta llegar a pH de.
3. Por debajo de los 40°C, adicionar **Fase D.**

Proveedores

[1]JQC Pharmaceutica, [2]Alzo, [3]Nikko, [4]**Sintoquim,** [5]Assessa, [6]Ashland, [7]**CrossChem**

Propiedades

pH: 3.5 – 5.5

Viscosidad: 500 – 900 cps sp: 64 / 20 rpm / 30 S

FORMULACIÓN APORTADA POR:

sintoquim
CIENCIA Y CONCIENCIA

Para más información contactar con **sintoquim.com**

Nail Care

‘WE CARE FOR CUTICLE’ TREATMENT

Cares for your nails and cuticle for a flawless finish. Smoothens gently the sensitive cuticle and nail bed for healthy-looking nails. Provides a non-greasy and non-tacky after-feel to the formulation, ideal for nail care.

Phase A	INCI Name	% (w/w)
demin. Water	Aqua	Up tp 100
dermofeel G 10 LW[1]	Polyglyceryl-10 Laurate, Aqua, Citric acid	3.0
Glycerin 99.5%[2]	Glycerin	3.0
Aloe Vera2	Aloe Barbadensis Leaf Juice Powder	0.2
Caffeine[2]	Caffeine	0.2
Xanthan Gum[3]	Xanthan Gum	0.4
BergaCare SB[4]	Butyrospermum Parkii (Shea) Butter	2.0
Phase B		
BergaCare FG Olive[4]		2.0
Jojoba Oil[5]	Simmondsia Chinensis (Jojoba) Seed Oil	2.0
Glyceryl Stearate Citrate [2]	Glyceryl Stearate Citrate	1.5
Phase C		
GlyAcid® 70 HP[6]	Glycolic Acid (and) Water	1.5
NaOH (25% Solution)[2]	Sodium Hydroxide	1.5
Phase D		
Preservative/Fragrance	–	q.s.

Procedure

Phase A: Weigh in Glycerin, add Xanthan Gum under stirring, add water, dermofeel and Aloe Vera, mix further 10 minutes. Add Caffeine subsequently and heat up to 75°C. Weigh in all raw materials from **phase B** under stirring and heat also up to 75°C until homogeneous. Add phase B to A while stirring and homogenize for 30 seconds at 7000 rpm with Ultra Turrax. Cool down to 40°C, add premixed **phase C.** Adjust to pH 4.0 and preserve.

Suppliers

[1] Evonik, [2]Diverse, [3]CP Kelko [4]**Berg+Schmidt,** [5]Interchimie, [6]**CrossChem** via Berg + Schmidt

Properties

pH: 4.0

Viscosity (24 h): n.n.

FORMULATION PROVIDED BY:

Berg+Schmidt
Care Ingredients
Our knowledge. Your formulations.

For more information, contact **berg-schmidt.de**

GLYACID® and OLUS OIL FOR NAILS

An example of thinking outside the box. We present you with a nail care formulation infusing **GlyAcid®** with Olus Oil that reduces the cuticle while facilitating nail uniformity.

Phase A	INCI Name	% (w/w)
Olus Oil[1]	Olus Oil	36.15
Pentaerythrityl Tetra-de-t-butyl Hydroxyhydrocinnamate	Pentaerythrityl Tetra-de-t-butyl Hydroxyhydrocinnamate	0.05
Vitamin E	Tocopheryl Acetate	4.00
Noo Crystal[2]	Octyldodecyl Oleate (and) Tocopheryl Acetate	40.00
Phase B		
PEG-403 Hydrogenated Castor Oil	PEG-40 Hydrogenated Castor Oil	10.00
Glicerin	Glicerin	3.00
GlyAcid® 70 HP[4]	Glycolic Acid	5.00
Cleanbio PE[4]	Phenoxyethanol (and) Ethylhexyglycerin	0.80
Fragrance		1.00

Procedure

Phase A: In main vessel, add Phase A. Mix with heat until antioxidant is dissolved. **Phase B:** Mix ingredients in separate vessel and add to Phase A. Adjust pH to 2.5 - 3.5 and add fragrance.

Suppliers

[1,3]Gustav Heess, [2]Sandream, [4]**CrossChem,** [5]Kolon

Properties

pH: 2.5 3.5

FORMULATION PROVIDED BY:

Look química

For more information, contact **lookchemicals.com**

GLYACID® NAIL MASQUE WITH RINSING GEL

This clever nail masque with the consistency of a light pomade helps repair ragged cuticles and improve shabby nails. High purity and formaldehyde free, GlyAcid® 70 HP is produced specifically for today's personal care applications. Ethoxcare® OD-20 delivers a ringing sensation that really adds to this masque's appeal.

Phase A	INCI Name	% (w/w)
DI Water	DI Water	53.60%
GlyAcid® 70 HP[1,2]	Glycolic Acid	1.60%
Sodium Hydroxide	Sodium Hydroxide	q.s.
Glycerin	Glycerin	10.00
Phase B		
Ethoxcare® OD-20[1,3]	Octyldodeceth-20	17.60%
Mineral Oil	Mineral Oil	12.00%
Ethal® OA-5[1,3]	Oleth-5	4.40%
Phase C		
Sharomix™ EG14[1,4]	Ethylhexylglycerin (and) Phenoxyethanol)	.80%

Procedure

Phase A: Add DI water to main vessel then neutralize the GlyAcid® 70 HP to pH 4.50. With mixing, add remaining Phase A ingredients and begin heating to 80°C to 85°C. **Phase B:** Add Phase B to a side vessel and being heating to 80°C to 85°C. When both Phase A and Phase B are at 80°C to 85°C, add Phase B to Phase A. Hold at 80°C to 85°C for 5 to10 minutes, then begin cooling. **Phase C:** At 65°C add Phase C and pour into final container to set up.

Suppliers

[1]**Coast Southwest, Inc.,** [2]CrossChem Limited, [3]Ethox Chemicals and Custom Synthesis, [4]Sharon-Laboratories Ltd.

Properties

pH: 5.0 to 5.5

Viscosity: n.a.

FORMULATION PROVIDED BY:

CoastSouthwest

For more information, contact **coastsouthwest.com**

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