

2018

GlyAcid[®]
glycolic acid

formaldehyde free

STARTER FORMULATIONS

CROSSCHEM
PURE CHEMISTRY

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PURE CHEMISTRY

For more than 40 years, glycolic acid has been predominately produced by either the carbonylation of formaldehyde or with glycolonitrile as a starting material. Both processes leave residual traces of formaldehyde in the finished commercial product.

By contrast, CrossChem's GlyAcid® is produced using a proprietary acid saponification and purification process that does not use formaldehyde while delivering a high purity glycolic acid in 57% solution, 70% solution and 99% crystalline.

GLYACID® FORMULATION IDEAS

Glycolic acid in personal care formulations has continued to increase globally over the last decade. With cooperation of our distribution partners in the USA and Europe, CrossChem is introducing GlyAcid® starting formulas to assist with your own unique hair and skin care products.



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

	% (w/w)
Deionized Water	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%
Jobba 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%
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PHASE D

NaOH 0.5 N (Sodium Hydroxide)	0.23%
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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. QS Phase D to desired pH. Once uniform, transfer to final container.

Suppliers

¹Coast Southwest, Inc., ²CrossChem, ³3V, ⁴Vivimed Labs USA, ⁵Sharon-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:



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.

	% (w/w)
PHASE A	
Deionized Water	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® 70HP ^{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%

HAIR CARE
GlyAcid[®]
 glycolic acid
 formaldehyde free

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

¹Coast Southwest, Inc., ²3V Inc., ³AkzoNobel Functional Chemicals LLC, ⁴CrossChem, ⁵Tea Guys, ⁶Sharon-Laboratories Ltd.

Properties

pH: 6-6.5

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

Formulation provided by:

CoastSouthwest
 Fluid Thinking. Innovative Solutions.

For more information,
 contact coastsouthwest.com



GLYCOLIC ACID SHAMPOO

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

PHASE A	% (w/w)
Deionized Water	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%
Enicare 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)	.25%
Fragrance	.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. Initially the batch will be discontinuous. Continue mixing. **Phase E:** Slowly add the surfactant to Phase ABCD. The batch will become uniform and increase in viscosity. Add fragrance.

Suppliers

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

Properties

pH: 6.83

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

Formulation provided by:



For more information, contact coastsouthwest.com

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. Vegetable-derived **Olivatis™ 12** is an excellent water in oil emulsifier that formulates a silky, smoothie texture emulsion. Scandinavian **Nordic Beauty® Lingonberry** is a natural antioxidant super-fruit and colorant, known to maintain skin firmness, reduce hyperpigmentation, and protect skin from premature aging.

PHASE A

	% (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	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)	0.60%
Sharomix EG14 ^{1,7} (Ethylhexylglycerin (and) Phenoxyethanol)	1.00%



Procedure

Phase A: In main vessel, combine Phase A ingredients under propeller mixing and begin heating to 70-75°C. **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® 99 HP 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 70°C. 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 70°C. Once complete, allow to cool and transfer to a holding vessel.

Suppliers

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

Properties

pH: n/a

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

Formulation provided by:



For more information, contact coastsouthwest.com



COMPLEXION CLEARING FACIAL CREAM

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

PHASE A	% (w/w)
Deionized Water	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 (Carthamus Tinctorius (Safflower) Seed Oil)	4.00%
Jjoba Oil ^{1,4} (Simmondsia Chinensis (Jojoba) Seed Oil)	3.00%
Endicare® LI-7 ¹ (PEG-7 Glyceryl Cocoate)	.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)	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 60°C. **Phase B:** Slow add Phase B to Phase A until dissolved. **Phase C:** In a separate vessel, mix Phase C and heat to 140°F (60°C). 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 104°F (40°C). **Phases E and F:** Add Phases E and F in order to Phase ABCD. Cool to 77 to 86°F (25 to 30°C) and transfer to holding vessel.

Suppliers

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

Properties

pH: 4.40

Viscosity: 3,000 to 5,000 cst.

Estimated SPF value available upon request.

Formulation provided by:



For more information, contact coastsouthwest.com

DOUBLE ACTION RINSABLE PEELING WITH BERGASCRUB AND GLYACID®

The two most effective peeling methods are mechanical and chemical. Imagine a product combining both: the well recognized action of the smallest AlphaHydroxyAcid -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	10.0
Cocamidopropyl Betaine 30%	Cocamidopropyl Betaine	10.0
EDTA	Tetrasodium EDTA	0.1
BergaSoft DG 50¹	Decyl Glucoside	2.5
Glycerin	Glycerin	2.0
Demin. Water	Aqua	up to 100
PHASE B		
CarbopolAqua SF - 2 ³	Acrylates Crosspolymer-4	5.0
PHASE C		
NaOH	Sodium Hydroxide	up to pH 7
PHASE D		
GlyAcid® 70 HP²	Glycolic Acid (and) Water	2.9
NaOH	Sodium Hydroxide	up to desired pH
PHASE E		
BergaScrub 400¹	Hydrogenated Castor Oil	1.0
Preservative / Fragrance	-	q.s.

SKIN CARE
GlyAcid®
glycolic acid
formaldehyde free

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

¹Berg + Schmidt, ²CrossChem distributed by Berg + Schmidt, ³Lubrizonl

Properties

pH: 4.8

Viscosity: (24H) = 6800 Cps

Stability under progress: Intern ID: RPO K146

Formulation provided by:



For more information,
contact berg-schmidt.de



BRIGHTENING CRÈME CLEANSER

This brightening crème cleanser utilizes alpha hydroxy acid **GlyAcid® 70 HP** for gentle exfoliation to reveal an instantly brighter-looking complexion. **Chembetaine™ CAS Surfactant** offers a mild cleansing base and foaming properties. The sugar-based **Glucotain® Care** imparts emolliency and lubricity to the foam, leaving a pampered and pleasant skin feel after washing, without excessive dryness. **Hostapon® SCI-85** and **Endinol® MILD CC-1250** surfactants enhance the mildness of the formulation

	% (w/w)
PHASE A	
Deionized Water	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)	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	q.s.

Procedure

Phase A: Combine Phase A ingredients in formula order into main vessel with propeller mixing and begin heating to 70°C-75°C. Mix until fully uniform.

Phase B: In a separate vessel, combine Phase B ingredients with propeller mixing and begin heating to 70°C-75°C. Once at desired temperature and fully uniform, 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 40°C, 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. Transfer to final container when room temperature is achieved.

Suppliers

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

Properties

pH: 6.0-6.5

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

Formulation provided by:



For more information, contact coastsouthwest.com

CITRUS MORNING BURST CLEANSER

This natural cleanser has orange peel and Glycolic Acid 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	% (w/w)
Deionized Water	59.50%
Endinol® SCS ¹ (Sodium Coco-Sulfate)	10.00%
PHASE B	
Sorbitol 70%	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.

SKIN CARE
GlyAcid[®]
 glycolic acid
 formaldehyde free

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

¹Coast Southwest, Inc., ²CrossChem, ³Medolla Limited, ⁴Sharon-Laboratories Ltd

Properties

pH: 6.5

Viscosity: spindle 4 @ 60 rpm = 1913 cst.

Formulation provided by:

CoastSouthwest[®]
 Fluid Thinking. Innovative Solutions.™

For more information,
 contact coastsouthwest.com

FACE MASK TREATMENT

This 10-minute mask delivers formaldehyde-free Glycolic Acid and moisturizes with a cooling sensation.

PHASE A	% (w/w)
Deionized Water	61.90%
Dissolvine® 220-S ^{1,2} (Tetrasodium EDTA)	0.20%
Sorbitol 70% (Sorbitol)	8.00%
GlyAcid® 70 HP ^{1,3} (Glycolic Acid)	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) Chlorphenesin (and) Citric Acid)	4.00%
Creagel® Crystal HPB ^{1,5} (Hydrogenated Polyisobutene (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 soperaffin (and) Laureth-7)	2.25%

SKIN CARE
GlyAcid[®]
 glycolic acid
 formaldehyde free

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 homogenous.

Suppliers

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

Properties

pH: 3.73

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

Formulation provided by:

CoastSouthwest[®]
 Fluid Thinking. Innovative Solutions.™

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	% (w/w)
Deionized Water	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)	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.%

SKIN CARE
GlyAcid[®]
 glycolic acid
 formaldehyde free

Procedure

Phase A: Add Phase A in order until homogenous. **Phase B:** Add Phase B in order to Phase A until homogenous. **Phase C:** Pre-mix Phase C and add to Phase AB. Note: Allow 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

¹Coast Southwest, Inc., ²Akzo Nobel Functional Chemicals LLC, ³V Sigma- USA, ⁴Southern Chemicals & Textiles, ⁵CrossChem, ⁶Oxiteno, ⁷The Innovation Company®, ⁸Sharon-Laboratories Ltd., ⁹Medolla Limited

Properties

pH: 4.01

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

Formulation provided by:

CoastSouthwest[®]
 Fluid Thinking. Innovative Solutions.™

For more information,
 contact coastsouthwest.com



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)
Demin. Water	Aqua	Up to 100
Glycerin 99.5%	Glycerin	6
Xanthan Gum	Xanthan Gum	0.5
PHASE B		
BergaCare SB ¹	Butyrospermum Parkii Butter	2.0
BergaBest MCT 60/40 ¹	Caprylic/Capric Triglyceride	4.0
BergaCare FG 5 ¹	Ethylhexyl Palmitate (and) Ethylhexyl Stearate (and) Hydrogenated Olive Oil Unsaponifiables (and) Caprylic/Capric Triglyceride	4.0
BergaMuls ET 1 ¹	β-Glucan (and) Pectin	3.0
Behenyl Alcohol	Behenyl Alcohol	4.0
Bergazid C1499 ¹	Myristic Acid	2.0
PHASE C		
Glycerin 99.5%	Glycerin	10.0
BergaSom Soy 50 ¹	Lecithin	0.2
PHASE D		
Kaolin	Kaolin	10.0
PHASE E		
GlyAcid® 70 HP ²	Glycolic Acid and water	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 1 while stirring. Add Phase B to Phase A while stirring and homogenise 30 seconds. Separately, weigh **Phase D** and dissolve while stirring. Cool down to 40°C while mixing and add Kaolin and Phase D. Adjust the pH with GlyAcid 70 HP (pH 4) and add preservative

Suppliers

¹Berg + Schmidt, ²CrossChem distributed by Berg + Schmidt

Properties

pH: 4

Viscosity: (24H) = n.a.

Internal Ref: GM-004-BSC

Formulation provided by:



For more information, contact berg-schmidt.de

WASH FOAM WITH 20% GLYACID® 70 HP, BERGASOFT DG 50 AND BERGASOM SUN 50

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 and 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)
Demin. Water	Aqua	Up To 100%
BergaSoft DG 50¹	Decyl Glucoside	3.0
Glycerin 99.5%	Glycerin	1.0
1,3-Butylene Glycol	Butylene Glycol	1.0
Polysorbate-60	Polysorbate-60	0.2
BergaSom Sun 50¹	Lecithin	0.1
D-Panthenol	Panthenol	0.5
PHASE B		
GlyAcid® 70 HP²	Glycolic Acid (and) Water	20.0
NaOH solution (25%)	Sodium Hydroxide	13.5
PHASE C		
Preservative/fragrance	-	q.s.

SKIN CARE
GlyAcid®
glycolic acid
formaldehyde free

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 preservative.

Suppliers

¹Berg + Schmidt, ²CrossChem 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:



For more information, contact berg-schmidt.de



FOAMING FACIAL CLEANSER

The GlyAcid® 70 HP in this foaming facial cleanser makes the pores finer, and the 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)
Demin. Water	Aqua	Up To 100%
BergaSoft DG 50¹	Decyl Glucoside	2.0
GlyAcid 70 HP²	Glycolic Acid and water	2.0
Sodium Laureth Sulfate 70%	Sodium Laureth Sulfate	1.0
Butylene Glycol 1.3	Butylene Glycol 1.3	1.0
Sorbitol 70%	Sorbitol	1.0
Sodium Cocoamphoacetate	Sodium Cocoamphoacetate	0.3
D-Panthenol	Panthenol	0.5
Allantoin	Allantoin	0.2
Polysorbate 60	Polysorbate 60	0.2
Sodium Hydroxide	Sodium Hydroxide	Adjust pH ~4
Menthol	Menthol	0.1
PHASE B		
Preservative / Fragrance	-	q.s.

Procedure

Weigh all raw materials and stir without heating. Add preservative and fragrance

Suppliers

¹Berg + Schmidt, ²CrossChem distributed by Berg + Schmidt

Properties

pH: 4.0

Viscosity: (24H) = n.a.

Internal Ref: WS-007-BSC

Formulation provided by:



For more information, contact berg-schmidt.de

NIGHT PEELING CREAM WITH GLYACID®

SKIN CARE
GlyAcid[®]
 glycolic acid
 formaldehyde free

PHASE A	INCI Name	% (w/w)
BergaBest GS SE¹	Glyceryl Stearate	3.5
Cetearyl Alcohol	Cetearyl Alcohol	2.0
Carbopol Ultrez 30 ³	Carbomer	1.0
Ceteareth 20	Ceteareth 20	1.0
MicroCare M8100	Caprylyl Methicone	4.0
Cyclopentasiloxane (and) Dimethicone / Vinyl Dimethicone Crosspolymer	Cyclopentasiloxane (and) Dimethicone / Vinyl Dimethicone Crosspolymer	5.0
Dimethicone	Dimethicone	5.0
PHASE B		
Demin. Water	Aqua	Up to 100
Glycerin	Glycerin	1.0
Pentylene Glycol	Pentylene Glycol	2.0
PHASE C		
GlyAcid® 70 HP²	Glycolic Acid (and) Water	10.7
NaOH	Sodium Hydroxide	Up to desired 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, add slowly 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:



For more information, contact berg-schmidt.de



AFTER SHAVE FLUID WITH GLYACID® 70 HP AND BERGACARE FG 5

This refreshing After Shave Fluid contains GlyAcid® 70 HP – high purity glycolic acid – 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)
Demin. 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) Water	4.0
Demin. 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, add preservative and Ethanol.

Suppliers

¹Berg + Schmidt, ²CrossChem distributed by Berg + Schmidt, ³Lubrizonl

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:



For more information, contact berg-schmidt.de

ANTI ACNE CREAM WITH 15% GLYACID® 70 HP AND BERGAMULS ET 1

This Anti Acne Cream contains a high and particularly effective concentration of Glycolic Acid (GlyAcid®) which stimulates the cell renewal process and smoothens 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)
Demin. Water	Aqua	Up To 100%
Propylene Glycol	Propylene Glycol	2.0
Xanthan Gum	Xanthan Gum	0.5
PHASE B		
BergaBest MCT 60/40¹	Caprylic/Capric Triglyceride	3.0
BergaCare FG 5¹	Ethylhexyl Palmitate (and) Ethylhexyl Stearate (and) Hydrogenated Olive Oil Unsaponifiables (and) Caprylic Capric Triglyceride	3.0
BergaSom Sun 50¹	Lecithin	0.2
Stearyl Alcohol	Stearyl Alcohol	2.0
Bergazid 9818¹	Stearic Acid	2.0
Cetearyl Alcohol	Cetearyl Alcohol	3.0
Cetyl Alcohol	Cetyl Alcohol	1.0
BergaCare SB¹	Butyrospermum Parkii (Shea) Butter	2.0
BergaMuls ET 1¹	Beta-Glucan (and) Pectin	2.0
Squalane	Squalane	1.5
PHASE C		
GlyAcid® 70 HP²	Glycolic Acid (and) Water	15.0
Demin. Water	Aqua	10.0
NaOH	Sodium Hydroxide	adjust pH
PHASE D		
D-Panthenol	Panthenol	1.0
Preservative/Fragrance	-	q.s.

SKIN CARE
GlyAcid®
 glycolic acid
 formaldehyde free

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

¹Berg + Schmidt, ²CrossChem 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:



For more information, contact berg-schmidt.de



BEARD FLUID WITH BERGASOM SUN 75 H, BERGACARE FG 5, GLYACID® 70 HP AND BERGACARE SB

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 provide care and protection, while GlyAcid® 70 HP straightens the hair surface leading to a more glossy and radiant appearance.

PHASE A	INCI Name	% (w/w)
Demin. Water	Aqua	Up To 100%
BergaSom Sun 75 H¹	Hydrogenated Lecithin	0.5
Butylene Glycol	Butylene Glycol	2.0
Allantoin	Allantoin	0.1
PHASE B		
BergaCare EM-AB¹	C12-15 Alkyl Benzoate	2.0
BergaCare FG 5¹	Ethylhexyl Palmitate (and) Ethylhexyl Stearate (and) Hydrogenated Olive Oil Unsaponifiables (and) Caprylic Capric Triglyceride	5.0
BergaCare SB¹	Butyrospermum Parkii (Shea) Butter	2.0
Agenaflo 9050 ²	Corn Starch Modified	2.0
Apricot Kernel Oil	Prunus Armeniaca (Apricot) Kernel Oil	2.0
Glyceryl Stearate Citrate	Glyceryl Stearate Citrate	1.0
Joboba Oil	Simmondsia Chinensis (Jojoba) Seed Oil	1.0
PHASE C		
D-Panthenol	Panthenol	1.0
PHASE D		
GlyAcid® 70 HP³	Glycolic Acid (and) Water	2.5
Demin. Water	Aqua	5.0
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

¹Berg + Schmidt, ²Agrana, ³CrossChem distributed by Berg + Schmidt

Properties

pH: 4

Viscosity: (24H) 1430

Internal Ref: Beard Fluid-002-BSC

Formulation provided by:



For more information,
contact berg-schmidt.de



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