

2018

**GlyAcid**<sup>®</sup>  
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 <sup>1</sup> (Polyethyloxazoline) | 10.00%  |
| GlyAcid® 70 HP <sup>1,2</sup> (Glycolic Acid)       | 2.00%   |
| Conditioner P7NA <sup>1,3</sup> (Polyquaternium-7)  | 4.50%   |
| DL-Panthenol 50% <sup>1</sup> (Panthenol)           | 1.00%   |

### PHASE B

|  |       |
|--|-------|
| Moringa Seed Oil <sup>1,4</sup> (Moringa Oleifera Seed Oil)                | 2.00% |
| Jajoba Oil <sup>1</sup> (Simmondsia Chinesis (Jajoba) Seed Oil)            | 2.00% |
| Endimate® IPP <sup>1</sup> (Isopropyl Palmitate)                           | 3.00% |
| Endimate® IPM <sup>1</sup> (Isopropyl Myristate)                           | 2.00% |
| Endicare CT IPP <sup>1</sup> (Cetearyl Alcohol (and) Centrimonium Bromide) | 6.00% |

### PHASE C

|  |       |
|--|-------|
| Sharomix HMG <sup>1,5</sup> (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. QS Phase D to desired pH. Once uniform, transfer to final container.

## Suppliers

<sup>1</sup>Coast Southwest, Inc., <sup>2</sup>CrossChem, <sup>3</sup>3V, <sup>4</sup>Vivimed Labs USA, <sup>5</sup>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:



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

HAIR CARE  
**GlyAcid**<sup>®</sup>  
 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

<sup>1</sup>Coast Southwest, Inc., <sup>2</sup>3V Inc., <sup>3</sup>AkzoNobel Functional Chemicals LLC, <sup>4</sup>CrossChem, <sup>5</sup>Tea Guys, <sup>6</sup>Sharon-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](http://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 <sup>1</sup> (Glycerin)   | 4.00%   |
| <b>Dissolvine® GL-47-S<sup>1,2</sup></b> (Tetrasodium Glutamate Diacetate)  | 0.20%   |
| Sorbitol 70% (Sorbitol)   | 4.00%   |
| <b>Synthalen® W400<sup>1,3</sup></b> (Acrylates Copolymer)  | 10.00%  |
| <b>PHASE B</b>  |         |
| <b>Endinol MILD SFB-105K<sup>1</sup></b> (Disodium Laureth Sulfosuccinate (and) Sodium Cocoyl Isethionate (and) Cocamidopropyl Betaine) | 10.00%  |
| <b>Enicare LI-7<sup>1</sup></b> (PEG-7 Glyceryl Cocoate)  | 5.00%   |
| <b>PHASE C</b>  |         |
| <b>GlyAcid 70 HP<sup>1,4</sup></b> (Glycolic Acid)  | 1.40%   |
| Sodium Hydroxide (0.5M) (Sodium Hydroxide)  | 2.00%   |
| <b>PHASE D</b>  |         |
| <b>Sharon 702<sup>1,5</sup></b> (Dehydroacetic Acid (and) Benzoic Acid (and) Phenoxyethanol)  | 1.00%   |
| <b>PHASE E</b>  |         |
| <b>Endimox™ CAW<sup>1</sup></b> (Cocamidopropylamine Oxide)   | .25%    |
| Fragrance   | .20%    |

HAIR CARE  
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### 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

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

### Properties

**pH:** 6.83

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

Formulation provided by:

**CoastSouthwest**<sup>®</sup>  
 Fluid Thinking. Innovative Solutions.™

For more information,  
 contact [coastsouthwest.com](http://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 <sup>1</sup> (Carthamus Tinctorius (Safflower) Seed Oil)              | 2.00%   |
| <b>Colorless Jojoba Oil</b> <sup>1,2</sup> (Simmondsia Chinensis (Jojoba) Seed Oil) | 4.00%   |
| Vitamin E Acetate <sup>1</sup> (Tocopheryl Acetate)                                 | 0.50%   |
| <b>Endimate® 33V</b> <sup>1</sup> (Caprylic/Capric Triglyceride)                    | 4.00%   |
| <b>Endimate® IPM</b> <sup>1</sup> (Isopropyl Myristate)                             | 3.00%   |
| <b>Endicare® TN</b> <sup>1</sup> (C12-15 Alkyl Benzoate)                            | 2.00%   |

### PHASE B

|   |       |
|---|-------|
| <b>Olivatis™ 12</b> <sup>1,3</sup> (Polyglyceryl-3 Pentaolivate)  | 7.00% |
| <b>Creabase MSO</b> <sup>1,4</sup> (Limnanthes Alba (Meadowfoam) Seed Oil (and) Cera Alba (and) Hydrogenated Meadowfoam Seed Oil) | 1.50% |
| Sunflower Wax <sup>1</sup> (Helianthus Annuus (Sunflower) Seed Oil)   | 0.25% |

### PHASE C

|  |        |
|--|--------|
| Deionized Water  | 63.95% |
| <b>Dissolvine® NA2-S</b> <sup>1,5</sup> (Disodium EDTA)  | 0.20%  |
| Glycerin <sup>1</sup> (Glycerin)   | 1.00%  |
| Propylene Glycol <sup>1</sup> (Propylene Glycol)   | 3.50%  |
| <b>GlyAcid® 99 HP</b> <sup>1,6</sup> (Glycolic Acid)   | 4.00%  |
| NaOH 40% aq. Solution (Sodium Hydroxide)   | q.s.   |
| <b>Nordic Beauty® Lingonberry Dispersion</b> <sup>1,4</sup> (Water (and) Vaccinium Vitis-Idaea Fruit Extract (and) Maltodextrin (and) Sodium Benzoate (and) Potassium Sorbate) | 1.50%  |
| NaCl (Sodium Chloride)   | 0.60%  |
| <b>Sharomix EG14</b> <sup>1,7</sup> (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

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

## Properties

**pH:** n/a

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

Formulation provided by:



For more information, contact [coastsouthwest.com](http://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%  |
| <b>Dissolvine® NA2-S</b> <sup>1,2</sup> (Disodium EDTA)   | 0.05%   |
| Glycerin <sup>1</sup> (Glycerin)  | 2.50%   |
| <b>PHASE B</b>  |         |
| <b>Stabylen 30</b> <sup>1,3</sup> (Acrylates/Vinyl Isodecanoate Crosspolymer)   | 0.50%   |
| <b>PHASE C</b>  |         |
| Safflower Oil <sup>1</sup> (Carthamus Tinctorius (Safflower) Seed Oil)  | 4.00%   |
| <b>Jjoba Oil</b> <sup>1,4</sup> (Simmondsia Chinensis (Jojoba) Seed Oil)  | 3.00%   |
| <b>Endicare® LI-7</b> <sup>1</sup> (PEG-7 Glyceryl Cocoate)   | .80%    |
| Cetyl Alcohol <sup>1</sup> (Cetyl Alcohol)  | 1.50%   |
| Vitamin E Acetate <sup>1</sup> (Tocopheryl Acetate)   | 0.10%   |
| <b>PHASE D</b>  |         |
| NaOH 20% aq. solution (Sodium Hydroxide)  | 1.00%   |
| <b>GlyAcid® 70 HP</b> <sup>1,5</sup> (Glycolic Acid)  | 2.85%   |
| <b>PHASE E</b>  |         |
| <b>Endimoist® HA Solution</b> <sup>1</sup> (Sodium Hyaluronate)   | 0.50%   |
| <b>PHASE F</b>  |         |
| <b>AstaDerm™ 200</b> <sup>1</sup> (Porphyridium Polysaccharide)   | 1.00%   |
| <b>MedXtract Witch Hazel Distilled</b> <sup>1,6</sup> (Hamamelis Virginiana Leaf Water)   | 1.00%   |
| <b>Sharon Biomix Free CG</b> <sup>1,7</sup> (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,<sup>4</sup> 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

<sup>1</sup>Coast Southwest, Inc., <sup>2</sup>Akzo Nobel Functional Chemicals LLC, <sup>3</sup>V Sigma-USA, <sup>4</sup>Jojoba Desert (A.C.S.) Ltd., <sup>5</sup>CrossChem, <sup>6</sup>Medolla Limited, <sup>7</sup>Sharon-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](http://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              |
| <b>BergaSoft DG 50<sup>1</sup></b> | <b>Decyl Glucoside</b>           | 2.5              |
| Glycerin                           | Glycerin                         | 2.0              |
| Demin. Water                       | Aqua                             | up to 100        |
| <b>PHASE B</b>                     |                                  |                  |
| CarbopolAqua SF - 2 <sup>3</sup>   | Acrylates Crosspolymer-4         | 5.0              |
| <b>PHASE C</b>                     |                                  |                  |
| NaOH                               | Sodium Hydroxide                 | up to pH 7       |
| <b>PHASE D</b>                     |                                  |                  |
| <b>GlyAcid® 70 HP<sup>2</sup></b>  | <b>Glycolic Acid (and) Water</b> | 2.9              |
| NaOH                               | Sodium Hydroxide                 | up to desired pH |
| <b>PHASE E</b>                     |                                  |                  |
| <b>BergaScrub 400<sup>1</sup></b>  | <b>Hydrogenated Castor Oil</b>   | 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

<sup>1</sup>Berg + Schmidt, <sup>2</sup>CrossChem distributed by Berg + Schmidt, <sup>3</sup>Lubrizonl

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

<sup>1</sup>Coast Southwest, Inc., <sup>2</sup>AkzoNobel Functional Chemicals LLC, <sup>3</sup>Lubrizol Advanced Materials, <sup>4</sup>Clariant, <sup>5</sup>CrossChem, <sup>6</sup>Sharon-Laboratories, Ltd., <sup>7</sup>Medolla 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](http://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%  |
| <b>Endinol® SCS</b> <sup>1</sup> (Sodium Coco-Sulfate)  | 10.00%  |
| <b>PHASE B</b>  |         |
| Sorbitol 70%  | 10.00%  |
| <b>GlyAcid® 70 HP</b> <sup>1,2</sup> (Glycolid Acid)  | 1.00%   |
| <b>Endicare® CitraBlend Orange (400 mesh)</b> (Citrus Sinensis (Orange) Peel Powder)                                | 3.00%   |
| <b>Endimate® 33V</b> <sup>1</sup> (Caprylic/Capric Triglyceride)  | 5.00%   |
| <b>PHASE C</b>  |         |
| Avocado Oil (Persea Grratissima (Avocado) Oil)  | 2.50%   |
| Shea Butter (Butyrospermum Parkii (Shea Butter) Fruit)  | 2.00%   |
| <b>Olivatis 18</b> <sup>1,3</sup> (Olive Oil Polyglyceryl-6 (and) Sodium Stearoly Lactylate (and) Cetearyl Alcohol) | 5.00%   |
| <b>PHASE D</b>  |         |
| <b>Biosecur C160S</b> <sup>1,4</sup> (Citrus Extract)   | 2.00%   |
| <b>PHASE E</b>  |         |
| Essential Oil Blend   | q.s.    |

SKIN CARE  
**GlyAcid**<sup>®</sup>  
 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

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

### Properties

**pH:** 6.5

**Viscosity:** spindle 4 @ 60 rpm = 1913 cst.

Formulation provided by:

**CoastSouthwest**<sup>®</sup>  
 Fluid Thinking. Innovative Solutions.™

For more information,  
 contact [coastsouthwest.com](http://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%  |
| <b>Dissolvine® 220-S</b> <sup>1,2</sup> (Tetrasodium EDTA)  | 0.20%   |
| <b>Sorbitol 70%</b> (Sorbitol)  | 8.00%   |
| <b>GlyAcid® 70 HP</b> <sup>1,3</sup> (Glycolic Acid)  | 1.40%   |
| <b>PHASE B</b>  |         |
| <b>Ultrastarch P212C</b> <sup>1,4</sup> (ZEA Mays (Corn) Starch)  | 10.00%  |
| <b>Pelavie® Pink Clay</b> <sup>1,5</sup> (Bentonite)  | 10.00%  |
| <b>PHASE C</b>  |         |
| <b>Hydrasoft® Sea</b> <sup>1,2</sup> (Water (and) Algae Extract (and) Natto Gum (and) Phenoxyethanol (and) Chlorphenesin (and) Citric Acid) | 4.00%   |
| <b>Creagel® Crystal HPB</b> <sup>1,5</sup> (Hydrogenated Polyisobutene (and) Ethylene/Propylene Copolymer)                                  | 1.00%   |
| <b>PHASE D</b>  |         |
| <b>Sharomix 705</b> <sup>1,6</sup> (Benzoic (and) Sorbic Acid (and) Dehydroacetic Acid (and) Benzyl Alcohol)                                | 1.00%   |
| <b>PHASE E</b>  |         |
| <b>Endicare® ETP-305</b> <sup>1</sup> (Polyacrylamide (and) C13-14 soperaffin (and) Laureth-7)  | 2.25%   |

SKIN CARE  
**GlyAcid**<sup>®</sup>  
 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

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

### Properties

**pH:** 3.73

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

Formulation provided by:

**CoastSouthwest**<sup>®</sup>  
 Fluid Thinking. Innovative Solutions.™

For more information,  
 contact [coastsouthwest.com](http://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%  |
| <b>Dissolvine® GL-47-S</b> <sup>1,2</sup> (Tetrasodium Glutamate Diacetate) | 0.10%   |
| <b>3V Allantoin</b> <sup>1,3</sup> (Allantoin)                              | 0.05%   |
| <b>Glycerin</b> <sup>1</sup> (Glycerin)                                     | 5.00%   |

### PHASE B

|   |       |
|---|-------|
| <b>Enditeric® COAB</b> <sup>1</sup> (Cocamidopropyl Betaine)          | 8.00% |
| <b>Sopalteric CBS</b> <sup>1,4</sup> (Cocamidopropyl Hydroxysultaine) | 8.00% |
| <b>Endisil® FS-193</b> <sup>1</sup> (PEG-12 Dimethicone)              | 1.50% |
| Polysorbate 20 <sup>1</sup> (Polysorbate 20)                          | 3.00% |
| <b>GlyAcid® 70 HP</b> <sup>1,5</sup> (Glycolic Acid)                  | 2.00% |

### PHASE C

|  |       |
|--|-------|
| <b>Canasol R 4000 H</b> <sup>1,6</sup> (PEG-40 Hydrogenated Castor Oil)  | 1.00% |
| <b>Cayoma® Olive</b> <sup>1,7</sup> (Aqua (and) Olea Europaea Leaf Extract (and) Alcohol (and) Maltodextrin (and) Olea Europaea Extract) | 0.20% |

### PHASE D

|   |       |
|---|-------|
| <b>Sharomix 703</b> <sup>1,8</sup> (Benzyl Alcohol (and) Potassium Sorbate (and) Sodium Benzoate (and) Water) | 1.00% |
|---|-------|

### PHASE E

|   |       |
|---|-------|
| <b>Olivatis™ 15</b> <sup>1,9</sup> (Olive Oil Glycereth-8 Esters) | 8.00% |
| NaOH 0.5N (Sodium Hydroxide)                                      | q.s.% |

SKIN CARE  
**GlyAcid**<sup>®</sup>  
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

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

## Properties

**pH:** 4.01

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

Formulation provided by:

**CoastSouthwest**<sup>®</sup>  
Fluid Thinking. Innovative Solutions.™

For more information,  
contact [coastsouthwest.com](http://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          |
| <b>PHASE B</b>                   |  |              |
| BergaCare SB <sup>1</sup>        | Butyrospermum Parkii Butter  | 2.0          |
| BergaBest MCT 60/40 <sup>1</sup> | Caprylic/Capric Triglyceride   | 4.0          |
| BergaCare FG 5 <sup>1</sup>      | Ethylhexyl Palmitate (and) Ethylhexyl Stearate (and) Hydrogenated Olive Oil Unsaponifiables (and) Caprylic/Capric Triglyceride | 4.0          |
| BergaMuls ET 1 <sup>1</sup>      | β-Glucan (and) Pectin  | 3.0          |
| Behenyl Alcohol                  | Behenyl Alcohol  | 4.0          |
| Bergazid C1499 <sup>1</sup>      | Myristic Acid  | 2.0          |
| <b>PHASE C</b>                   |  |              |
| Glycerin 99.5%                   | Glycerin   | 10.0         |
| BergaSom Soy 50 <sup>1</sup>     | Lecithin   | 0.2          |
| <b>PHASE D</b>                   |  |              |
| Kaolin                           | Kaolin   | 10.0         |
| <b>PHASE E</b>                   |  |              |
| GlyAcid® 70 HP <sup>2</sup>      | 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

<sup>1</sup>Berg + Schmidt, <sup>2</sup>CrossChem 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](mailto: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% |
| <b>BergaSoft DG 50<sup>1</sup></b> | <b>Decyl Glucoside</b>           | 3.0        |
| Glycerin 99.5%                     | Glycerin                         | 1.0        |
| 1,3-Butylene Glycol                | Butylene Glycol                  | 1.0        |
| Polysorbate-60                     | Polysorbate-60                   | 0.2        |
| <b>BergaSom Sun 50<sup>1</sup></b> | <b>Lecithin</b>                  | 0.1        |
| D-Panthenol                        | Panthenol                        | 0.5        |
| <b>PHASE B</b>                     |                                  |            |
| <b>GlyAcid® 70 HP<sup>2</sup></b>  | <b>Glycolic Acid (and) Water</b> | 20.0       |
| NaOH solution (25%)                | Sodium Hydroxide                 | 13.5       |
| <b>PHASE C</b>                     |                                  |            |
| 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

<sup>1</sup>Berg + Schmidt, <sup>2</sup>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:



For more information,  
contact [berg-schmidt.de](mailto: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%   |
| <b>BergaSoft DG 50<sup>1</sup></b> | <b>Decyl Glucoside</b>         | 2.0          |
| <b>GlyAcid 70 HP<sup>2</sup></b>   | <b>Glycolic Acid and water</b> | 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          |
| <b>PHASE B</b>                     |                                |              |
| Preservative / Fragrance           | -                              | q.s.         |

### Procedure

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

### Suppliers

<sup>1</sup>Berg + Schmidt, <sup>2</sup>CrossChem 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](http://berg-schmidt.de)



## NIGHT PEELING CREAM WITH GLYACID®

| PHASE A   | INCI Name   | % (w/w)          |
|---|---|------------------|
| <b>BergaBest GS SE<sup>1</sup></b>                                    | <b>Glyceryl Stearate</b>  | 3.5              |
| Cetearyl Alcohol  | Cetearyl Alcohol  | 2.0              |
| Carbopol Ultrez 30 <sup>3</sup>                                       | 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              |
| <b>PHASE B</b>  |   |                  |
| Demin. Water  | Aqua  | Up to 100        |
| Glycerin  | Glycerin  | 1.0              |
| Pentylene Glycol  | Pentylene Glycol  | 2.0              |
| <b>PHASE C</b>  |   |                  |
| <b>GlyAcid® 70 HP<sup>2</sup></b>                                     | <b>Glycolic Acid (and) Water</b>                                      | 10.7             |
| NaOH  | Sodium Hydroxide  | Up to desired Ph |
| <b>PHASE D</b>  |   |                  |
| Preservative / Fragrance  | -   | q.s.             |

SKIN CARE  
**GlyAcid®**  
 glycolic acid  
 formaldehyde free

### 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

<sup>1</sup>**Berg + Schmidt**, <sup>2</sup>**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](http://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 <sup>3</sup> | Acrylates/C10-30 Alkyl Acrylate Crosspolymer   | 0.5        |
| <b>PHASE B</b>                  |  |            |
| BergaCare FG 5 <sup>1</sup>     | Ethylhexyl Palmitate (and) Ethylhexyl Stearate<br>(and) Hydrogenated Olive Oil Unsaponifiables<br>(and) Caprylic Capric Triglyceride | 4.0        |
| SternOil HCO 40 <sup>1</sup>    | PEG-40 Hydrogenated Castor Oil   | 2.0        |
| BergaBest GS SE <sup>1</sup>    | Glyceryl Stearate SE   | 2.0        |
| <b>PHASE C</b>                  |  |            |
| GlyAcid® 70 HP <sup>2</sup>     | Glycolic Acid (and) Water  | 4.0        |
| Demin. Water                    | Aqua   | 10.0       |
| <b>PHASE D</b>                  |  |            |
| NaOH                            | Sodium Hydroxide   | adjust pH  |
| <b>PHASE E</b>                  |  |            |
| 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

<sup>1</sup>Berg + Schmidt, <sup>2</sup>CrossChem distributed by Berg + Schmidt, <sup>3</sup>Lubrizonl

### 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](mailto: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        |
| <b>PHASE B</b>                         |   |            |
| <b>BergaBest MCT 60/40<sup>1</sup></b> | <b>Caprylic/Capric Triglyceride</b>   | 3.0        |
| <b>BergaCare FG 5<sup>1</sup></b>      | <b>Ethylhexyl Palmitate (and) Ethylhexyl Stearate<br/>(and) Hydrogenated Olive Oil Unsaponifiables<br/>(and) Caprylic Capric Triglyceride</b> | 3.0        |
| <b>BergaSom Sun 50<sup>1</sup></b>     | <b>Lecithin</b>   | 0.2        |
| Stearyl Alcohol                        | Stearyl Alcohol   | 2.0        |
| <b>Bergazid 9818<sup>1</sup></b>       | <b>Stearic Acid</b>   | 2.0        |
| Cetearyl Alcohol                       | Cetearyl Alcohol  | 3.0        |
| Cetyl Alcohol                          | Cetyl Alcohol   | 1.0        |
| <b>BergaCare SB<sup>1</sup></b>        | <b>Butyrospermum Parkii (Shea) Butter</b>   | 2.0        |
| <b>BergaMuls ET 1<sup>1</sup></b>      | <b>Beta-Glucan (and) Pectin</b>   | 2.0        |
| Squalane                               | Squalane  | 1.5        |
| <b>PHASE C</b>                         |   |            |
| <b>GlyAcid® 70 HP<sup>2</sup></b>      | <b>Glycolic Acid (and) Water</b>  | 15.0       |
| Demin. Water                           | Aqua  | 10.0       |
| NaOH                                   | Sodium Hydroxide  | adjust pH  |
| <b>PHASE D</b>                         |   |            |
| 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

<sup>1</sup>Berg + Schmidt, <sup>2</sup>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:



For more information, contact [berg-schmidt.de](http://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% |
| <b>BergaSom Sun 75 H<sup>1</sup></b> | <b>Hydrogenated Lecithin</b>  | 0.5        |
| Butylene Glycol                      | Butylene Glycol   | 2.0        |
| Allantoin                            | Allantoin   | 0.1        |
| PHASE B                              |   |            |
| <b>BergaCare EM-AB<sup>1</sup></b>   | <b>C12-15 Alkyl Benzoate</b>  | 2.0        |
| <b>BergaCare FG 5<sup>1</sup></b>    | <b>Ethylhexyl Palmitate (and) Ethylhexyl Stearate<br/>(and) Hydrogenated Olive Oil Unsaponifiables<br/>(and) Caprylic Capric Triglyceride</b> | 5.0        |
| <b>BergaCare SB<sup>1</sup></b>      | <b>Butyrospermum Parkii (Shea) Butter</b>   | 2.0        |
| Agenaflo 9050 <sup>2</sup>           | Corn Starch Modified  | 2.0        |
| Apricot Kernel Oil                   | Prunus Armeniaca (Apricot) Kernel Oil   | 2.0        |
| Glyceryl Stearate Citrate            | Glyceryl Stearate Citrate   | 1.0        |
| Jjoba Oil                            | Simmondsia Chinensis (Jojoba) Seed Oil  | 1.0        |
| PHASE C                              |   |            |
| D-Panthenol                          | Panthenol   | 1.0        |
| PHASE D                              |   |            |
| <b>GlyAcid® 70 HP<sup>3</sup></b>    | <b>Glycolic Acid (and) Water</b>  | 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

<sup>1</sup>Berg + Schmidt, <sup>2</sup>Agrana, <sup>3</sup>CrossChem 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](mailto:berg-schmidt.de)



CrossChem LP | 5816 Dryden Place | Carlsbad CA 92008 USA | +1 (619) 578-0021 | [crosschem.net](http://crosschem.net)

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