



**GlyAcid**<sup>®</sup>  
glycolic acid  
formaldehyde free

# STARTER FORMULATIONS

**CROSSCHEM**  
PURE CHEMISTRY

## TABLE OF CONTENTS

### HAIR CARE

Pretty-In-Place Hair Glue	1
Hold Your Hair From Here To There To Everywhere	2
Glycolic Acid Shampoo	3
Ease Without Grease Beard Fluid	4
Create And Shape Hair Cream	5
Replenishing Shampoo For Stressed Hair	6
First Aid Shampoo Treatment	7
Sheer Shine Conditioner For Brilliant Appearance	8
Protective Leave-In Conditioning Spray	9

### SKIN CARE

Berry Smoothie Brightening Cream	10
Complexion Clearing Facial Cream	11
Double Action Rinsable Peel	12
Brightening Crème Cleanser	13
Citrus Morning Burst Cleanser	14
Face Mask Treatment	15
Pore Refining Wipe	16
2 In 1 Facial Mask For Oily Skin	17
Purifying Gentle Wash Foam	18
Foaming Facial Cleanser	19
Vitalizing Night Peeling Cream	20
Moisturizing After Shave Lotion	21
Light Caring Anti Acne Cream	22
Le Crème Moisturizer	23
Illuminating Coconut Cream Cleanser	24
Hibiscus Exfoliating And Foaming Jelly	25

## PURE CHEMISTRY

For more than 40 years, glycolic acid has been predominantly produced by either the carbonylation of formaldehyde or with glycolonitrile as a starting material.

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. In cooperation with our distribution partners in the USA, Europe and Asia, CrossChem is publishing 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%
<b>Endicare® DP-530S</b> <sup>1</sup> (Polyethyloxazoline)	10.00%
<b>GlyAcid® 70 HP</b> <sup>1,2</sup> (Glycolic Acid)	2.00%
<b>Conditioner P7NA</b> <sup>1,3</sup> (Polyquaternium-7)	4.50%
<b>DL-Panthenol 50%</b> <sup>1</sup> (Panthenol)	1.00%

### PHASE B

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

### PHASE C

<b>Sharomix HMG</b> <sup>1,5</sup> (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

<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.

### PHASE A

	% (w/w)
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%

### PHASE B

<b>GlyAcid® 70 HP</b> <sup>1,4</sup> (Glycolic Acid)	2.00%
NaOH (40% aq.) (Sodium Hydroxide)	1.20%

### PHASE C

<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®**  
 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</b> <sup>1,2</sup> (Tetrasodium Glutamate Diacetate)	0.20%
Sorbitol 70% (Sorbitol)	4.00%
<b>Synthalen® W400</b> <sup>1,3</sup> (Acrylates Copolymer)	10.00%
<b>PHASE B</b>	
<b>Endinol MILD SFB-105K</b> <sup>1</sup> (Disodium Laureth Sulfosuccinate (and) Sodium Cocoyl Isethionate (and) Cocamidopropyl Betaine)	10.00%
<b>Enicare LI-7</b> <sup>1</sup> (PEG-7 Glyceryl Cocoate)	5.00%
<b>PHASE C</b>	
<b>GlyAcid 70 HP</b> <sup>1,4</sup> (Glycolic Acid)	1.40%
Sodium Hydroxide (0.5M) (Sodium Hydroxide)	2.00%
<b>PHASE D</b>	
<b>Sharon 702</b> <sup>1,5</sup> (Dehydroacetic Acid (and) Benzoic Acid (and) Phenoxyethanol)	1.00%
<b>PHASE E</b>	
<b>Endimox™ CAW</b> <sup>1</sup> (Cocamidopropylamine Oxide)	.25%
Fragrance	.20%

HAIR CARE  
**GlyAcid**<sup>®</sup>  
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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>  
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For more information,  
 contact [coastsouthwest.com](http://coastsouthwest.com)

## EASE WITHOUT GREASE BEARD FLUID WITH GLYACID<sup>®</sup>, BERGASOM AND BERGACARE

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<sup>®</sup> 70 HP reorders the hair cuticle 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
<b>PHASE B</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 (and) Hydrogenated Olive Oil Unsaponifiables (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
Joboba Oil	Simmondsia Chinensis (Jojoba) Seed Oil	1.0
<b>PHASE C</b>		
D-Panthenol	Panthenol	1.0
<b>PHASE D</b>		
<b>GlyAcid<sup>®</sup> 70 HP<sup>3</sup></b>	<b>Glycolic Acid (and) Water</b>	2.5
Demin. Water	Aqua	5.0
<b>PHASE E</b>		
NaOH	Sodium Hydroxide	Adjust pH
Preservative/Fragrance	-	q.s.%

HAIR CARE  
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### 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<sup>®</sup> 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)

## 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 look.

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

HAIR CARE  
**GlyAcid**<sup>®</sup>  
 glycolic acid  
 formaldehyde free

### 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:** QS 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

<sup>1</sup>Coast Southwest, Inc., <sup>2</sup>CrossChem, <sup>3</sup>Medolla Limited, <sup>4</sup>ICSC International Cosmetic Science Centre, <sup>5</sup>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**<sup>®</sup>  
 Fluid Thinking. Innovative Solutions.™

For more information,  
 contact [coastsouthwest.com](http://coastsouthwest.com)

## REPLENISHING SHAMPOO FOR STRESSED HAIR WITH GLYACID®, BERGASOFT AND BERGACARE

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)
Demin. Water	Aqua	Up To 100%
EDTA	Tetrasodium EDTA	0.1
Acrylodimethyltaurate/VP Copolymer	Acrylodimethyltaurate/VP Copolymer	1
Glycerin 99.5%	Glycerin	5.00
<b>PHASE B</b>		
<b>BergaSoft SCI 80<sup>1</sup></b>	<b>Sodium Cocyl Isethionate</b>	10.00
<b>BergaCare Pearl2<sup>1</sup></b>	<b>Glycol Distearate</b>	2.00
Cocamide DEA	Cocamide DEA	2.00
<b>PHASE C</b>		
<b>BergaCare EM-HE7<sup>1</sup></b>	<b>PEG-7 Glyceryl Cocoate</b>	3.00
Laureth-4	Laureth-4	2.00
Cocamidopropyl Betaine 30%	Cocamidopropyl Betaine	6.00
<b>PHASE D</b>		
<b>GlyAcid® 70 HP<sup>2</sup></b>	<b>Glycolic Acid (and) Water</b>	2.5
NaOH 25%	Sodium Hydroxide	Adjust pH ~4
<b>PHASE E</b>		
Preservative/Fragrance	-	q.s.%

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

### Procedure

**Phase A:** Weigh water, glycerin and add copolymer and EDTA while stirring until homogenous. **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® while stirring. **Phase E:** Adjust pH and 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:** 4

**viscosity:** (24H) = na

**Internal Ref:** Gly Sh-007-BSC

Formulation provided by:



For more information, contact [berg-schmidt.de](http://berg-schmidt.de)



## FIRST AID SHAMPOO TREATMENT WITH GLYACID®, BERGASOFT AND BERGACARE



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)
Demin. Water	Aqua	Up To 100%
Carbopol Aqua SF-1 <sup>3</sup>	Acrylates Copolymer	5
NaOH 25%	Sodium Hydroxide	adjust to pH ~8
<b>PHASE B</b>		
<b>BergaSoft SCI 80<sup>1</sup></b>	<b>Sodium Cocoyl Isethionate</b>	10.00
Glycerin 99.5	Glycerin	2.00
EDTA	Tetrasodium EDTA	0.20
Sorbitol 70%	Sorbitol	4.00
<b>PHASE C</b>		
<b>BergaSoft LG 50<sup>1</sup></b>	<b>Lauryl Glucoside</b>	5.00
<b>BergaCare EM-HE7<sup>1</sup></b>	<b>PEG-7 Glyceryl Cocoate</b>	3.00
Cocamidopropyl Betaine 30%	Cocamidopropyl Betaine	8.00
<b>PHASE D</b>		
<b>GlyAcid® 70 HP<sup>2</sup></b>	<b>Glycolic Acid (and) Water</b>	4.00
NaOH Solution 25%	Sodium Hydroxide	adjust pH ~4
<b>PHASE E</b>		
PCA Glyceryl Oleate	PCA Glyceryl Oleate	0.5
Silk Protein	Aqua, Hydrolyzed Silk, Potassium Sorbate	2.0
<b>PHASE F</b>		
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 5 minutes, then add **Phase E**. Preserve and adjust pH

### Suppliers

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

**Internal Ref:**

Formulation provided by:



For more information, contact [berg-schmidt.de](mailto:berg-schmidt.de)

## SHEER SHINE CONDITIONER FOR BRILLIANT APPEARANCE WITH GLYACID®, BERGACARE AND VEGAROL

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)
Demin. Water	Aqua	Up To 100%
<b>BergaCare FG 5<sup>1</sup></b>	<b>Ethylhexyl Palmitae (and) Ethylexyl Stearate (and) Hydrogenated Olive Oil Unsaponifiables (and) Caprylic/Capric Triglyceride</b>	5.00
Cetrimonium Chloride	Cetrimonium Chloride	2.0
Aloe Vera	Aloe Barbadensis Leaf Juice Powder	0.20
Hydroxyethylcellulose	Hydroxyethylcellulose	0.50
<b>PHASE B</b>		
<b>Vegarol 1618 50:50<sup>1</sup></b>	<b>Cetearyl Alcohol</b>	3.00
<b>BergaCare SB<sup>1</sup></b>	<b>Butyrospermum Parkil (Shea) Butter</b>	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
<b>PHASE C</b>		
<b>GlyAcid® 70 HP<sup>2</sup></b>	<b>Glycolic Acid (and) Water</b>	2.00
NaOH (25% solution)	Sodium Hydroxide	2
<b>PHASE D</b>		
Hydrolyzed Wheat Protein Panthenol	Hydrolyzed Wheat Protein Panthenol	2.00
<b>PHASE E</b>		
Preservative/Fragrance	-	q.s.%

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

### 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

<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:** ~4

**viscosity:** (24H) = na

**Internal Ref:**

Formulation provided by:



For more information, contact [berg-schmidt.de](mailto:berg-schmidt.de)

## PROTECTING LEAVE-IN CONDITIONING SPRAY WITH GLY-ACID® AND BERGACARE

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

This leave-on treatment provides care and protection against environmental factors such as dirt, sunlight and humidity. Due to the well-thought-out composition of this conditioner your hair isn't weighted down leaving you with a pleasant feel to the touch all day long.

PHASE A	INCI Name	% (w/w)
Demin. Water	Aqua	Up To 100%
Glycerin (99.5%)	Glycerin	2
Xanthan Gum	Xanthan Gum	0.2
<b>PHASE B</b>		
<b>BergaCare FG 5<sup>1</sup></b>	<b>Ethylhexyl Palmitae (and) Ethylexyl Stearate (and) Hydrogenated Olive Oil Unsaponifiables (and) Caprylic/Capric Triglyceride</b>	3.0
<b>BergaCare SB<sup>1</sup></b>	<b>Butyrospermum Parkil (Shea) Butter</b>	1.5
Ceteareth-20	Ceteareth-20	2.0
Glyceryl Stearate Citrate	Glyceryl Stearate Citrate	0.5
Steareth-2	Steareth-2	2.0
<b>PHASE C</b>		
<b>GlyAcid® 70 HP<sup>2</sup></b>	<b>Glycolic Acid (and) Water</b>	2.5
NaOH (25% solution)	Sodium Hydroxide	2.5
<b>PHASE D</b>		
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

<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:** ~4

**viscosity:** (24H) = na

**Internal Ref:**

Formulation provided by:



For more information, contact [berg-schmidt.de](mailto: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. 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%
<b>PHASE B</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%
<b>PHASE C</b>	
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%

SKIN CARE  
**GlyAcid**<sup>®</sup>  
 glycolic acid  
 formaldehyde free

### 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:

**CoastSouthwest**  
 Fluid Thinking. Innovative Solutions.™

For more information, contact [coastsouthwest.com](http://coastsouthwest.com)



## COMPLEXION CLEARING FACIAL CREAM

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

PHASE A	% (w/w)
Deionized Water	80.40%
<b>Dissolvine</b> <sup>®</sup> <b>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</b> <sup>®</sup> <b>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</b> <sup>®</sup> <b>70 HP</b> <sup>1,5</sup> (Glycolic Acid)	2.85%
<b>PHASE E</b>	
<b>Endimoist</b> <sup>®</sup> <b>HA Solution</b> <sup>1</sup> (Sodium Hyaluronate)	0.50%
<b>PHASE F</b>	
<b>AstaDerm</b> <sup>™</sup> <b>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, 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 PEEL WITH GLYACID®, BERGASCRUB AND BERGASOFT

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	10.0
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](mailto:berg-schmidt.de)



## BRIGHTENING CRÈME CLEANSER

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

	% (w/w)
<b>PHASE A</b>	
Deionized Water	55.20%
<b>Dissolvine</b> <sup>®</sup> <b>100-S</b> <sup>1,2</sup> (Tetrasodium EDTA)	0.20%
<b>Chembetaine</b> <sup>™</sup> <b>CAS Surfactant</b> <sup>1,3</sup> (Cocamidopropyl Hydroxysultaine)	10.00%
<b>Hostapon</b> <sup>®</sup> <b>SCI-85</b> <sup>1,4</sup> (Sodium Cocoyl Isethionate)	6.00%
<b>Endinol</b> <sup>®</sup> <b>MILD CC-1250</b> <sup>1</sup> (Coco-Glucoside)	3.00%
<b>Glucotain</b> <sup>®</sup> <b>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</b> <sup>®</sup> <b>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</b> <sup>®</sup> <b>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</b> <sup>™</sup> <b>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 **GlyAcid**<sup>®</sup> 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</b> <sup>®</sup> <b>SCS</b> <sup>1</sup> (Sodium Coco-Sulfate)	10.00%
<b>PHASE B</b>	
Sorbitol 70%	10.00%
<b>GlyAcid</b> <sup>®</sup> <b>70 HP</b> <sup>1,2</sup> (Glycolid Acid)	1.00%
<b>Endicare</b> <sup>®</sup> <b>CitraBlend Orange (400 mesh)</b> (Citrus Sinensis (Orange) Peel Powder)	3.00%
<b>Endimate</b> <sup>®</sup> <b>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</b> <b>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</b> <b>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.<sup>™</sup>

For more information,  
 contact [coastsouthwest.com](http://coastsouthwest.com)





## FACE MASK TREATMENT

This 10-minute mask delivers 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%

### 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:



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%
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### 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)



## 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)
Demin. Water	Aqua	Up to 100
Glycerin 99.5%	Glycerin	6
Xanthan Gum	Xanthan Gum	0.5
<b>PHASE B</b>		
<b>BergaCare SB<sup>1</sup></b>	<b>Butyrospermum Parkii Butter</b>	2.0
<b>BergaBest MCT 60/40<sup>1</sup></b>	<b>Caprylic/Capric Triglyceride</b>	4.0
<b>BergaCare FG 5<sup>1</sup></b>	<b>Ethylhexyl Palmitate (and) Ethylhexyl Stearate (and) Hydrogenated Olive Oil Unsaponifiables (and) Caprylic/Capric Triglyceride</b>	4.0
<b>BergaMuls ET 1<sup>1</sup></b>	<b>β-Glucan (and) Pectin</b>	3.0
Behenyl Alcohol	Behenyl Alcohol	4.0
<b>Bergazid C1499<sup>1</sup></b>	<b>Myristic Acid</b>	2.0
<b>PHASE C</b>		
Glycerin 99.5%	Glycerin	10.0
<b>BergaSom Soy 50<sup>1</sup></b>	<b>Lecithin</b>	0.2
<b>PHASE D</b>		
Kaolin	Kaolin	10.0
<b>PHASE E</b>		
<b>GlyAcid® 70 HP<sup>2</sup></b>	<b>Glycolic Acid (and) Water</b>	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 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

<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)

## PURIFYING GENTLE FOAM WASH WITH GLYACID®, BERGASOFT AND BERGASOM

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

PHASE A	INCI Name	% (w/w)
Demin. Water	Aqua	Up To 100%
<b>Bergasoft DG 50</b> <sup>1</sup>	<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</b> <sup>1</sup>	<b>Lecithin</b>	0.1
D-Panthenol	Panthenol	0.5
<b>PHASE B</b>		
<b>GlyAcid® 70 HP</b> <sup>2</sup>	<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 **Phase C** 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

**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)
Demin. Water	Aqua	Up To 100%
<b>BergaSoft DG 50</b> <sup>1</sup>	<b>Decyl Glucoside</b>	2.0
<b>GlyAcid® 70 HP</b> <sup>2</sup>	<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 **Phase A** raw materials and stir without heating. Add **Phase B** 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](mailto:berg-schmidt.de)

## VITALIZING NIGHT PEELING CREAM WITH GLYACID®

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

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, slowly add **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](mailto:berg-schmidt.de)

## MOISTURIZING AFTER SHAVE LOTION WITH GLYACID<sup>®</sup> AND BERGACARE

This refreshing after shave contains **GlyAcid<sup>®</sup> 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)
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>		
<b>BergaCare FG 5<sup>1</sup></b>	<b>Ethylhexyl Palmitate (and) Ethylhexyl Stearate (and) Hydrogenated Olive Oil Unsaponifiables (and) Caprylic Capric Triglyceride</b>	4.0
<b>SternOil HCO 40<sup>1</sup></b>	<b>PEG-40 Hydrogenated Castor Oil</b>	2.0
<b>BergaBest GS SE<sup>1</sup></b>	<b>Glyceryl Stearate SE</b>	2.0
<b>PHASE C</b>		
<b>GlyAcid<sup>®</sup> 70 HP<sup>2</sup></b>	<b>Glycolic Acid (and) Water</b>	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 with **Phase D**. Add **Phase E** 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<sup>®</sup>, 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)

## LIGHT CARING ANTI-ACNE CREAM WITH GLYACID® AND BERGAMULS

This Anti-Acne Cream contains a high and particularly effective concentration of **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 (and) Hydrogenated Olive Oil Unsaponifiables (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)



## LE CRÈME MOISTURIZER

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

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

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

<sup>1</sup>SEIL International, <sup>2</sup>CrossChem,

### Properties

**pH:** 3.8 – 4.2

**Viscosity:** spindle 6 @ 20 rpm = 3000- 5000cps

Formulation provided by:



For more information,  
 contact [seilint.com](http://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.

	% (w/w)
<b>PHASE A</b>	
Deionized Water	55.33%
<b>Endiques® GLDA</b> <sup>1</sup> (Tetrasodium Glutamate Diacetate)	0.15%
<b>Endinol® MILD B-SF65</b> <sup>1</sup> (Sodium Cocoyl Isethionate (and) Cocamidopropyl Hydroxysultaine (and) Lauryl Glucoside (and) Cocamidopropylamine Oxide (and) Caprylyl/Capryl Glucoside)	24.00%
<b>PHASE B</b>	
<b>Rosehip Oil</b> <sup>1,2</sup> (Rosa Canina Fruit Oil)	3.00%
<b>Coconut Oil</b> <sup>1,2</sup> (Cocos Nucifera (Coconut) Oil)	4.00%
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% w/w Solution (Sodium Hydroxide)	0.80%
<b>PHASE D</b>	
<b>SharoSENSE™ Plus 181</b> <sup>1,3</sup> (Maltol (and) Polyquaternium-80)	0.70%
<b>PHASE E</b>	
<b>GlyAcid® 70 HP</b> <sup>1,4</sup> (Glycolic Acid)	1.70%
NaOH 40% w/w Solution (Sodium Hydroxide)	1.02%

SKIN CARE  
**GlyAcid**<sup>®</sup>  
 glycolic acid  
 formaldehyde free

### Procedure

**Phase A:** Add Phase A ingredients in formula order to the main vessel with shear mixing and begin heating to 158°F to 167°F (70°C to 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°F to 167°F (70°C to 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°F to 140°F (50°C to 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

<sup>1</sup>Coast Southwest, Inc., <sup>2</sup>International Cosmetic Science Centre (ICSC), <sup>3</sup>Sharon-Laboratories Ltd., <sup>4</sup>CrossChem

### Properties

**pH:** 6.0 – 6.5

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

Formulation provided by:

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

For more information,  
 contact [coastsouthwest.com](http://coastsouthwest.com)



## HIBISCUS EXFOLIATING AND FOAMING JELLY

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

PHASE A	% (w/w)
<b>Micromatrix<sup>®</sup> Fractile CAT</b> <sup>1,2</sup> (Water (and) Corn Starch Modified (and) Polyquaternium-10)	57.65%
<b>Hydrasoft<sup>®</sup> Pine</b> <sup>1,2</sup> (Water (and) Hydroxyethylcellulose (and) Preservative System)	15.00%
<b>Olivatis<sup>™</sup> 15</b> <sup>1</sup> (Olive Oil Glycereth-8 Esters)	10.00%
<b>GlyAcid<sup>®</sup> 70 HP</b> <sup>1,3</sup> (Glycolic Acid)	6.00%
<b>Hibiscus Tea</b> <sup>1,4</sup> (Hibiscus Sabdariffa)	0.35%
<b>PHASE B</b>	
<b>Fiflow<sup>®</sup> VF</b> <sup>1,2</sup> (Perfluorohexane (and) Perfluorodecalin (and) Perfluoroperhydrophenanthrene (and) Perfluorodimethylcyclohexane)	5.00%
<b>Fiflow<sup>®</sup> BB61</b> <sup>1,2</sup> (Perfluorohexane (and) Perfluorodecalin (and) Perfluoropropane)	3.00%
<b>Endicare<sup>®</sup> FB-810</b> <sup>1</sup> (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

<sup>1</sup>Coast Southwest, Inc., <sup>2</sup>The Innovation Company<sup>®</sup>, <sup>3</sup>CrossChem, <sup>4</sup>Tea Guys

### Properties

**pH:** 2.50 – 3.0

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

Formulation provided by:



For more information, contact [coastsouthwest.com](http://coastsouthwest.com)



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