Glypure™

Cosmetic-Grade Glycolic Acid

Formulation—Men's Care
All-In-One Hair and Body Wash

- Makes hair significantly less prone to breakage
- Promotes manageability of hair
- Softens hair
- Reduces flaking and drying of the scalp
- Moisturizes the scalp
- Provides moisturizing effect to skin
- Improves the look and feel of skin
- Promotes exfoliation
- Reduces the appearance of fine lines and wrinkles

Phase	Trade Name	Wt%	INCI Name	Supplier
A1	Purified Water USP	40.00	Purified Water USP	
A2	Bio-Terge® AS-40 CG-P	17.00	Sodium C14-16 Olefin Sulfonate	Stepan
A3	Edeta® BD	0.05	Disodium EDTA	BASF
A4	Crothix™ PA MH	1.00	PEG-150 Pentaerythrityl Tetrastearate	Croda
A5	Mackernium® 007	2.00	Polyquaternium 7	Solvay
A6	Amphosol® CA	3.00	Cocoamidopropyl Betaine	Stepan
A7	Crodasinic® LS30	8.00	Sodium Lauroyl Sarcosinate	Croda
A8	Cetiol® HE	2.00	PEG-7 Glyceryl Cocoate	BASF
A9	Ajidew® N-50	0.40	Sodium PCA	Ajinomoto
B1	Purified Water	15.00	Purified Water	
B2	**Glypure™**	**5.00**	**Glycolic Acid (70%)[1]**	**Chemours**
B3	Triethanolamine 99%	1.50	Triethanolamine 99% NF[2,3] —to pH 3.5–4.03	–
C1	Elestab® FL-15	2.50	Butylene Glycol (and) Glycerin (and) Chlorphenesin (and) Methylparaben	Lab. Serobiologiques/ BASF
D1	FD&C Blue #1	0.10	Dye (To Shade Desired)	–
D2	As Desired w/Acidic Top Notes	0.00	Fragrance	As Desired
Adjust	Adjust final pH to 3.8–4.2 with Triethanolamine or Glypure™, as necessary			
qs	Purified Water USP	qs to 100%	Purified Water USP	

Glypure™ penetrates the hair shaft—helping hair better withstand heat, as well as softening hair and providing superior lubrication. It also penetrates the skin efficiently—readjusting water percentages in the epidermis, stimulating collagen synthesis, and promoting cell turnover, as well as is an efficient pH adjuster.

Notes:

[1]Glypure™ (99%) may be substituted for Glypure™ (70%). Compensate for active Glycolic Acid content and purified pater percentage accordingly.

[2]May use other suitable alkalis, e.g., Potassium Hydroxide, Ammonium Hydroxide, or Sodium Hydroxide.

[3]Do not exceed 2.5% of Triethanolamine to comply with EU regulations. If necessary, add another neutralizing agent.

In lieu of Glypure™, formulators and manufacturers must use Glypure™ L for products used or distributed in Canada or Australia and in Europe for nail care products.

Chemours™

Manufacturing Procedure

1. In the main vessel, add A1–A3; mix until A3 is soluble.
2. Add A4 and heat to 60-65 C (140-149 °F) to solubilize A4.
3. With continued mixing, lower temperature to 45-50 °C (113-122 °F) and add A5–A9.
4. In a separate vessel, prepare phase B. When pH is adjusted appropriately, add to phase A.
5. Begin cooling to 30-35 °C (86-95 °F) and add phase C. Mix until clear.
6. Add remaining ingredients, phases D and E, and any adjusted percentage of make-up water.

Glypure™ has proven benefits in hair, skin, and nail care formulations. To learn more about the benefits of Glypure™, visit www.glypure.com.

For more information, visit glycolicacid.chemours.com or call (800) 441-9593.

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