

# Glypure™

## Cosmetic-Grade Glycolic Acid

### Formulation—Men's Care Roll On Razor Bump Treatment



Glypure™ penetrates the skin efficiently—readjusting water percentages in the epidermis, stimulating collagen synthesis, and promoting cell turnover. It is also an efficient pH adjuster.

- Improves the look and feel of skin
- Exfoliates the skin to reveal trapped facial hair that can cause razor bumps

Phase	Trade Name	Wt%	INCI Name	Supplier
A1	Purified Water USP	30.00	Purified Water USP	
A2	Ucare® Polymer JR-30M	0.40	Polyquaternium-10	Dow
A3	Edeta® BD	0.05	Disodium EDTA	BASF
A4	SD Alcohol 40-B	25.00	SD Alcohol 40-B	-
A5	Resorcinol, USP	5.00	Resorcinol, USP	Spectrum
A6	Bromelain, 1200 GDU	2.00	Bromelain	Spec-Chem Industry Inc.
A7	Zemea® Propanediol	3.00	Propanediol	DuPont Tate & Lyle Bio Products
A8	Biowax® Liquid 754	1.00	PEG-8 Dimethicone	Biosil Technologies
A9	Tween® 20	0.25	Polysorbate 20	Croda
B1	Purified Water USP	15.00	Purified Water USP	
B2	<b>Glypure™</b>	<b>8.00</b>	<b>Glycolic Acid (70%)<sup>1</sup></b>	<b>Chemours</b>
B3	Ammonia Solution Strong NF	2.90	Ammonium Hydroxide 28% <sup>2</sup> —to pH 4.1–4.3 <sup>3</sup>	-
C1	Elestab® FL-15	2.50	Butylene Glycol (and) Glycerin (and) Chlorphenesin (and) Methylparaben	Lab. Serobiologiques/ BASF
C2	As Desired	0.00	Dye and Botanical Additives <sup>4,5</sup>	As Desired
<b>Adjust</b>	Adjust final pH to 4.1–4.3 with Citric Acid Monohydrate, USP or Sodium Citrate Dihydrate, USP, as necessary.			
<b>qs</b>	Purified Water USP	qs to 100%	Purified Water USP	

#### Notes:

<sup>1</sup>Glypure™ (99%) may be substituted for Glypure™ (70%). Compensate for active Glycolic Acid content and purified water percentage accordingly.

<sup>2</sup>May use other suitable alkalis, e.g., Potassium Hydroxide, Ammonium Hydroxide, or Sodium Hydroxide.

<sup>3</sup>Do not exceed 2.5% of Triethanolamine to comply with EU regulations. If necessary, add another neutralizing agent

<sup>4</sup>Compensate the purified water percentage accordingly to 100% batch weight.

<sup>5</sup>It is recommended not to use a fragrance for this type of product.

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.

## Manufacturing Procedure

1. In the main vessel, add A1 at 25-30 °C (77-86 °F) and begin mixing.
2. Slowly sprinkle in A2 until uniformly dispersed and then begin heating to 35-45 °C (95-113 °F) until A2 hydrates and solution becomes water clear.
3. Cool to <33 °C (91°F) and add, in order, A3-A9, allowing each ingredient to solubilize after each addition. Continue cooling.
4. In a separate vessel, add ingredients B1-B3. Be sure to adjust pH to the indicated range before addition to phase A.
5. Add C1 and C2 individually and mix until uniform.
6. Adjust pH, if necessary, to 4.1-4.3, using Citric Acid or Sodium Citrate.
7. Adjust purified water content appropriately.

Glypure™ has proven benefits in hair, skin, and nail care formulations. To learn more about the benefits of Glypure™, visit [www.glypure.com](http://www.glypure.com).

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**For more information, visit [glycolicacid.chemours.com](http://glycolicacid.chemours.com) or call (800) 441-9593.**

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