

# Glypure™

## Cosmetic-Grade Glycolic Acid

### Formulation—Skin Care Rinse Off Facial Mask



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
- Promotes exfoliation
- Improves skin texture
- Fights the signs of aging
- Reduces the appearance of fine lines and wrinkles
- Improves the appearance of sun-damaged skin
- Helps even out skin tone

Phase	Trade Name	Wt%	INCI Name	Supplier
A1	Purified Water USP	40.00	Purified Water USP	
A2	Edeta® BD	0.05	Disodium EDTA	BASF
A3	Pullulan	15.00	Pullulan	Hayashibara
A4	Brij™ CS20	0.50	Ceteareth-20	Croda
A5	Alkest® TW 20	0.50	Polysorbate 20	Oxiten
A6	Butylene Glycol	2.00	Butylene Glycol	Spectrum Chemical
A7	Glycerin 99%	2.00	Glycerin 99%	–
A8	Ajidew® N-50	0.50	Sodium PCA	Ajinomoto
A9	Sodium Hyaluronate Solution 1%	0.50	Sodium Hyaluronate Solution 1%	Tri-K
A10	Biowax® Liquid 754	1.50	PEG-8 Dimethicone	Biosil
B1	Purified Water	15.00	Purified Water	
B2	<b>Glypure™</b>	<b>10.00</b>	<b>Glycolic Acid (70%)<sup>1</sup></b>	<b>Chemours</b>
B3	Triethanolamine 99%	2.00	Triethanolamine 99% NF <sup>2,3</sup> to pH 3.8-4.2 <sup>3</sup>	–
C1	Elestab® FL-15	1.00	Butylene Glycol/Glycerin/Chlorphenesin/Methylparaben	Lab. Serobiologiques/BASF
D1	As Desired	0.00	Vitamins <sup>4</sup>	As Desired
D2	As Desired	0.00	Dye <sup>4</sup>	As Desired
D3	As Desired	0.00	Fragrance <sup>4</sup>	As Desired
D4	As Desired	0.00	Botanical Extracts <sup>4</sup>	As Desired
qs	Purified Water	qs to 100%	Purified Water	

#### Notes:

<sup>1</sup>Glypure™ (99%) may be substituted for Glypure™ (70%). Compensate the 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 for any additives.

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. Prepare phase A by adding A1 to the main vessel and begin mixing.
2. Slowly add A2 and mix until soluble.
3. Add A3 slowly with mild mixing to disperse; heat to 25-35 °C (77-95 °F) for at least 30 min until water is clear soluble.
4. Heat to 65-70 °C (149-158 °F), and add A4 and A5. Mix until soluble and uniform.
5. Begin cooling and add in order A6–A10. Continue cooling.
6. In a separate vessel, prepare phase B and adjust pH as indicated.
7. At 40-45 °C (104-113 °F), add phase B to phase A. Continue cooling and mixing.
8. At 30-35 °C (86-95 °F), add phases C and D individually to phase AB, mixing until uniform between each addition.
9. Add make-up water and continue mixing to room temperature.

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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