

# Glypure™

## Cosmetic-Grade Glycolic Acid

### Formulation—Skin Care Peel 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	Selvol™ 540S	7.50	Polyvinyl Alcohol	Sekisui Chemical
A4	Brij™ CS20	0.50	Cetareth-20	Croda
A5	Tween™ 20	0.50	Polysorbate 20	Croda
A6	Butylene Glycol	2.00	Butylene Glycol	Vantage Specialty Ingredients
A7	Glycerin 99%	2.00	Glycerin 99%	Vantage Specialty Ingredients
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	Glypure™	10.00	Glycolic Acid (70%) <sup>1</sup>	Chemours
B3	Trolamine 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	SD Alcohol 40-B	10.00	SD Alcohol 40-B	–
E1	As Desired	0.00	Vitamins <sup>4</sup>	As Desired
E2	As Desired	0.00	Dye <sup>4</sup>	As Desired
E3	As Desired	0.00	Fragrance <sup>4</sup>	As Desired
E4	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., such as 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. With mixing, add A3 slowly to disperse, and heat to 85–95 °C (185–203 °F) for at least 30 min until soluble.
4. Cool to 75–80 °C (167–176 °F), and add A4 and A5. Mix until soluble and uniform.
5. Cool to 60–65 °C (140–149 °F), and add in order, A6–A10. Continue cooling and mixing.
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, D, and E 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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