

# Glypure™

## Cosmetic-Grade Glycolic Acid

### Formulation—Skin Care Day Cream with Sunscreen



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

Phase	Trade Name	Wt%	INCI Name	Supplier
A1	Purified Water USP	30.00	Purified Water USP	
A2	Veegum® Ultra	1.00	Magnesium Aluminum Silicate	Vanderbilt Minerals, LLC
A3	Glycerin USP	3.00	Glycerin 99% USP	Spectrum Chemical
A4	Keltrol® CG-T	0.30	Xanthan Gum	CP Kelco
A5	Edeta® BD	0.20	Disodium EDTA	BASF
A6	Triethanolamine 99%	1.50	Triethanolamine 99% NF	–
B1	Purified Water USP	8.00	Purified Water USP	
B2	<b>Glypure™</b>	<b>11.50</b>	<b>Glycolic Acid (70%)<sup>1</sup></b>	<b>Chemours</b>
B3	Ammonium Hydroxide Solution	1.5-2.0	Ammonium Hydroxide 28%–to pH 3.8 or desired pH	–
C1	Emersol® 7036	3.75	Stearic Acid	Emery Oleochemicals
C2	Alfol 16	1.50	Cetyl Alcohol	Sasol
C3	Arlacel™ 165	4.00	Glyceryl Stearate/PEG-100 Stearate	Oxitenol
C4	Escalol® 557	7.50	Octylmethoxycinnamate	Ashland
C5	Captex® 200	1.00	Propylene Glycol Dicaprylate/Dicaprate	Abitec
C6	Vitamin E Acetate, USP	0.50	Tocopherol Acetate	Spectrum Chemical
C7	Eutanol® G-16	4.00	Isocetyl Alcohol	BASF
C8	Xiameter® PMX-200 Silicone Fluid 100CS	2.00	Dimethicone	Dow Corning
C9	Crodamol™ AB	3.00	C12-15 Alkyl Benzoate	Croda
C10	Elefac™ I-205	5.00	TiO <sub>2</sub> /Isononyl Isononanoate/Stearic Acid/Aluminum Hydroxide	Alzo International
C11	Tioveil™ 50 FCM	5.00	Titanium Dioxide (and) Cyclomethicone (and) C12-15 Alkyl Benzoate (and) Polyhydroxystearic Acid (and) Aluminum Stearate (and) Alumina	Croda
D1	Phenonip®	1.00	Phenoxyethanol (and) Methylparaben (and) Ethylparaben (and) Butylparaben (and) Propylparaben (and) Isobutylparaben	Clariant
E1	As Desired	0.00	Fragrance <sup>2</sup>	As Desired
qs	Purified Water USP	qs to 100%	Purified Water USP	

#### Notes:

<sup>1</sup>Glypure™ (99%) may be substituted for Glypure™ (70%). Compensate the purified water percentage accordingly.

<sup>2</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 phases A, B, and C separately.
2. When preparing phase C, homogenize for 30 min after heating and addition of the  $\text{TiO}_2$  dispersion.
3. Heat phases A and C to 70-75 °C (158-167 °F).
4. Blend phases A and C, stirring and homogenizing for a minimum of 10 min.
5. Cool to 65 °C (149 °F).
6. Add phase B and stir with homogenizing for a minimum of 10 min.
7. Cool and add preservative, fragrance, and purified water below 40 °C (104 °F).

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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