

Glypure™

Cosmetic-Grade Glycolic Acid

Formulation—Skin Care Night Cream



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	13.00	Purified Water USP	
A2	Glycerin USP	2.00	Glycerin 99% USP	Dow, Vantage Specialty Ingredients
A3	Zemea® Propanediol	3.00	Propanediol	DuPont Tate & Lyle Bio Products
A4	Arlasolve™ DMI	1.50	Dimethyl Isosorbide	Croda
A5	Natrosol® 250 HEC	0.20	Hydroxyethylcellulose	Ashland
A6	Keltrol® CG-T	0.20	Xanthan Gum NF	CP Kelco
A7	Edeta® BD	0.05	Disodium EDTA	BASF
A8	Actiphyte of Algae	2.00	Algae Extract/Propylene Glycol/Water	Active Organics
B1	Purified Water USP	18.00	Purified Water USP	
B2	Glypure™	5.00	Glycolic Acid (99%) ¹	Chemours
B3	Trolamine 99	2.50	Triethanolamine 99% NF— to pH 3.8 or desired pH	-
C1	Arlacel™ 165-PW-(AP)	3.00	Glyceryl Stearate/PEG-100 Stearate	Croda
C2	Myrj™ S100-PA-(WL)	0.50	PEG-100 Stearate	Croda
C3	Emersol® 7036	1.00	Stearic Acid	Emery Oleochemicals
C4	ODM 100	2.00	Octyldodecyl Myristate	Barnet
C5	Lanette® 18	2.00	Stearyl Alcohol	BASF
C6	Lecinol S-10®	1.00	Hydrogenated Lecithin	Barnet
C7	Hetester® FAO	2.00	C12-15 Alkyl Ethylhexanoate Benzoate	Alzo
C8	Procol SA-2	0.70	Steareth-2	Protameen Chemicals
C9	XIAMETER® PMX-200 Silicone Fluid 100CS	1.00	Dimethicone	Dow Corning
C10	Lexemul® EGDS	2.00	Glycol Distearate	Inolex
C11	Captex® SBE	0.50	Caprylic/Capric/Stearic Triglycerides	Abitec
C12	Wickenol® 171	3.20	Octyl Hydroxystearate	Alzo
C13	Ultima USP	1.00	White Petrolatum	Penreco
C14	Fancor® Meadowfoam Seed Oil	2.00	Meadowfoam Seed Oil	Elementis Specialties
D1	XIAMETER® PMX-0345 Cyclosiloxane Blend	9.00	Cyclomethicone	Dow Corning
E1	Sodium Hyaluronate 1% Soln.	2.00	Sodium Hyaluronate 1% Soln.	Tri-K
F1	Elestab® FL-15	2.50	Butylene Glycol/Glycerin/ Chlorphenesin/Methylparaben	Lab. Serobiologiques/ BASF
G1	As Desired	0.00	Dye, Fragrance, and Additives ²	As Desired
qs	Purified Water USP	qs to 100%	Purified Water USP	

Notes:

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

²Compensate 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.
2. Pre-wet the polymers in A3. Add to the purified water, and homogenize.
3. Add the remaining ingredients with mixing.
4. Prepare phase B, and mix for a minimum of 30 min. Add phase B to phase A.
5. In a separate vessel, add ingredients of phase C, and begin heating to 70–75 °C (158–167 °F).
6. When both phase AB and phase C are at 70–75 °C (158–167 °F), add phase C to phase AB. Homogenize for 15 min.
7. Cool to 60–65 °C (140–149 °F), and add phase D to phase ABC. Homogenize for 10 min.
8. Begin cooling to 40 °C (104 °F). Add phases E and F.
9. When temperature is <40 °C (104 °F), add fragrance and make-up water.
10. Cool to 25–30 °C (77–86 °F) with sweep mixing.

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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