Glypure™

Cosmetic-Grade Glycolic Acid

Formulation—Men's Care
Facial Toner for Wipes

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	50.00	Purified Water USP	
A2	Ucare® Polymer JR-30M	0.10	Polyquaternium-10	Dow
A3	**Glypure™**	**11.43**	**Glycolic Acid (70%)[1]**	**Chemours**
A4	Ammonia Solution Strong NF	2.90	Ammonium Hydroxide 28%[2]—to pH 3.7–3.9	–
A5	Edeta® BD	0.05	Disodium EDTA	BASF
A6	Biowax® Liquid 754	0.50	PEG-8 Dimethicone	Biosil Technologies
A7	Tween™ 20	0.25	Polysorbate 20	Croda
A8	Zemea® Propanediol	3.00	Propanediol	DuPont Tate & Lyle Bio Products
A9	Aloe Vera Gel Decolorized 40X	0.25	Aloe Barbadensis Leaf Juice	Terry Labs
A10	Witch Hazel USP	5.00	Hamamelis Virginiana (Witch Hazel) Extract	Spectrum
A11	α-Bisabolol	0.10	α-Bisabolol	BASF
A12	As Desired	0.00	Dye	As Desired
A13	As Desired	0.00	Fragrance, Botanical Extracts[3]	As Desired
A14	Elestab® FL-15	2.50	Butylene Glycol (and) Glycerin (and) Chlorphenesin (and) Methylparaben	Lab. Serobiologiques/ BASF
A15	SD Alcohol 40-B	20.00	SD Alcohol 40-B	–
qs	Purified Water USP	qs to 100%	Purified Water USP[4]	

Notes:

[1]Glypure™ (99%) may be substituted for Glypure™ (70%). Compensate for active Glycolic Acid content and purified water percentage accordingly.

[2]May use other suitable alkalis, e.g., Potassium Hydroxide, Ammonium Hydroxide, or Sodium Hydroxide.

[3]Fragrance and botanical extracts should have a citrus top note for stability.

[4]Compensate the purified water percentage accordingly to 100% batch weight.

Note: Stability profiles of the finished product should be determined.

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.

Chemours™

Manufacturing Procedure

1. In the main mixing vessel, add A1 and begin mixing.
2. Slowly sprinkle in A2 until uniformly dispersed, then begin heating to 35-45 °C (95-113 °F) until A2 hydrates and solution becomes water clear.
3. Cool to below 30 °C (86 °F) and add A3 with mixing.
4. Neutralize to the indicated pH with A4 or other suitable alkali.
5. Add in order A5–A14, allowing each ingredient to solubilize before adding the next.
6. Cool to below 30 °C (86 °F) and add A15 with mixing.
7. Adjust pH to indicated range and qs with purified water to 100%.

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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