# **Glypure**™

Cosmetic-Grade Glycolic Acid

# Formulation—Men's Care Facial Toner for Wipes



Glypure<sup>™</sup> 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 sundamaged skin
- Helps even out skin tone

	Phase	Trade Name	Wt%	INCI Name	Supplier
Ī	A1	Purified Water USP	50.00	Purified Water USP	
	A2	Ucare® Polymer JR-30M	0.10	Polyquaternium-10	Dow
	А3	Glypure™	11.43	Glycolic Acid (70%) <sup>1</sup>	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 <sup>3</sup>	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 <sup>4</sup>	

#### Notes.

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

In lieu of Glypure<sup>™</sup>, formulators and manufacturers must use Glypure<sup>™</sup> L for products used or distributed in Canada or Australia and in Europe for nail care products.



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

<sup>&</sup>lt;sup>2</sup>May use other suitable alkalis, e.g., Potassium Hydroxide, Ammonium Hydroxide, or Sodium Hydroxide.

<sup>&</sup>lt;sup>3</sup>Fragrance and botanical extracts should have a citrus top note for stability.

<sup>&</sup>lt;sup>4</sup>Compensate the purified water percentage accordingly to 100% batch weight.

## 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<sup>™</sup> has proven benefits in hair, skin, and nail care formulations. To learn more about the benefits of Glypure<sup>™</sup>, visit www.glypure.com.

### For more information, visit glycolicacid.chemours.com or call (800) 441-9593.

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