



Zemea® Acne Treatment Solution with Glypure™

Phase	Ingredient	INCI Name	Wt. %
A ₁	SD Alcohol 40B, 190 Proof	SD Alcohol 40B, 190 Proof	40.00%
A ₂	Salicylic Acid USP	Salicylic Acid USP	0.5-2.0%
A ₃	Zemea® Propanediol	Propanediol	10.00%
B ₁	Purified Water USP	Purified Water	40.00%
B ₂	Glycolic Acid 70% Liquid ¹	Glypure™ L(70%)	5.00%
B ₃	Triethanolamine 99% NF ²	Trolamine NF	to pH 3.8-4.2%
B ₄	Aloe Barbadensis Leaf Juice	Aloe Vera Gel Decolorized 10X	1.00%
B ₅	Polyquaternium-10	Polymer JR 30M	0.10%
B ₆	Disodium Cocoamphodiacetate	Mackam 2C-LV	0.30%
C ₁	Fragrance	As Desired	0.00%
C ₂	Dye	As Desired	0.00%
Adjust	Triethanolamine 99% NF [•]	Trolamine NF	to pH 3.8-4.2%
	Purified Water USP	Purified Water	qs to 100%
	Total		100.00%

Procedure

1. Combine Phase A to the main mix in vessel and begin mixing slowly.
2. Add Phase A₂ and mix until dissolved.
3. Add Zemea propanediol and mix Phase A until clear and soluble.
4. In a separate vessel, prepare Phase B by adding Glypure™ L (70%) to the Phase B₁.
5. Adjust pH to the indicated range with B₃, then add the remaining ingredients of Phase B with continued mixing. Gentle heating may be necessary to fully hydrate the Polyquaternium-10.
6. Add Phase B to Phase A with propellar mixing. Mix until clear. Do not exceed 30°C.
7. Add fragrance and dyes desired and adjust final product to the indicated pH range.
8. Add adjusted percentage of purified water to 100%.

For additional information or samples:

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