





This transparent gel cleanser effectively removes debris and makeup without compromising the skin's barrier. This is achieved using **Emulsiderm PG4C**, a self-emulsifying hydrophilic emollient, and **Activederm MR**, a biomimetic skin lipid refatting blend. The distinct slow-flowing gel texture is structured by **Synthalen® W2000**.

	 Components	 INCI Declaration	 %	 Function
<b>Phase I</b>	Deionized Water TSGD <b>Synthalen® W2000</b>	Water (Aqua) Tetrasodium Glutamate Diacetate <b>Acrylates/Palmeth-25 Acrylate Copolymer</b>	Up to 100 0.10 <b>3.80</b>	Solvent Chelating agent <b>Rheology modifier, thickener</b>
<b>Phase II</b>	ALPHA-STEP PC-48 <sup>(A)</sup> NINOL CAA <sup>(A)</sup> Endifoam FB-850 <sup>(B)</sup>  Sopalteric CHS <sup>(B)</sup> <b>Emulsiderm PG4C</b> <b>Activederm MR</b>	Sodium Methyl 2-Sulfolaurate (and) Disodium 2-Sulfolaurate Dimethyl Lauramide/Myristamide Hydrolyzed Corn Starch (and) Capryloyl/Caproyl Methyl Glucamide Cocamidopropyl Hydroxysultaine <b>Polyglyceryl-4 Caprate</b> <b>Coco-Glucoside (and) Squalane (and)</b> <b>Sodium Surfactin</b>	5.00  1.00 0.80  2.00 <b>0.80</b> <b>1.00</b>	Primary surfactant  Secondary surfactant Foam booster  Foaming co-surfactant <b>Emollient surfactant</b> <b>Refatting agent, cleanser</b>
<b>Phase III</b>	NaOH 10%	Sodium Hydroxide	2.00	pH adjuster
<b>Phase IV</b>	PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	1.00	Preservative
Appearance Viscosity (RV#5 @ 10 RPM) pH (as is)		Transparent flowing gel 8,000 – 11,000 cps 6.8 – 7.3		

## Procedure:

1. Charge the main vessel with deionized water and TSGD. Begin mixing at high speed and disperse SYNTHALEN® W2000 into the vortex.
2. Add Phase II surfactants one by one, mixing thoroughly with each addition. Maintain moderate-speed mixing.
3. Once well mixed, activate the polymer by adjusting the pH to 6.8–7.3 using the NaOH (10%) solution. The batch will rapidly thicken into its final gel structure.
4. Add the preservative. Switch to sweep mixing to avoid trapping air and continue mixing until the batch is completely uniform.

## Sources:

- A. Stepan
- B. Coast Southwest