



## Zemea® SPF 30 Mineral Lotion with SoBind® Harmony

Phase	Trade/Drug Name	INCI Name	Suppliers	Wt.%
A	Water	Aqua		49.50
	SoBind™ HARMONY Bass L	Glycine SOJA (Soybean) Protein Glycine SOJA (Soybean) Oil	DuPont	2.00
	Zemea®	Propanediol	DuPont Tate and Lyle	3.00
B	ZinClear® IM 50 CCT	Zinc Oxide (and) Caprylic/Capric Triglyceride (and) Glyceryl Isotearate (and) Polyhydroxystearic Acid	DOW	30.00
	Finsolv® TN	C12-15 Alkyl Benzoate	Innospec	5.00
	Emulgade® PL68/5	Cetearyl Glucoside, Cetearyl Alcohol	Cognis (BASF)	7.00
	Cosmosurf® CE-150	Stearyl/Octyldodecyl Citrate Crosspolymer	Surfatech	2.00
C	Geogard® Ultra	Gluconolactone, Sodium Benzoate	Lonza	1.50
	Total			100.00

### Manufacturing Process

1. In main vessel charge Phase A water. Under moderate agitation add propanediol and then sift in Harmony polymer. Heat to 80°C.
2. Combine and mix Phase B to uniformity. Heat to 85°C. Add to Phase A. Impeller mix and continue mixing for 10 min. Then begin cooling batch while mixing.
3. At 40°C add Phase C ingredient to batch and mix to uniformity. Continue mixing batch to r/t and ll.

### For additional information or samples:

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