



LOTION WITH MICROPOLY 1160S

<u>Product Name</u>	<u>INCI Name</u>	<u>%W/W</u>	<u>Supplier</u>
Phase A Deionized Water	Water	63.60	N/A
Phase B Arlacel 165	Glyceryl Stearate (& PEG-100 Stearate	6.00	Croda
Permethyl® 102A	Isoeicosane	20.00	Presperse LLC
Hystrene 9718 NF EXT PWDR	Stearic Acid	3.00 PMC	Biogenix
Lipocol S	Stearyl Alcohol	1.00	Lipo Chemicals
Phase C Triethanolamine 99%	Triethanolamine	0.40	N/A
Phase D Barguard CP	Caprylyl Glycol, Phenoxyethanol, Hexylene Glycol	1.00	Paradigm Research Sci.
Phase E Micropoly 1160S	Polyethylene	5.00	Micro Powders, Inc.

Procedure

1. In a main kettle, heat Phase A to 70-75 °C.
2. In a separate vessel, combine Phase B materials and heat phase to 75-80 °C.
3. When both phases are at temperature, add Phase B to Phase A under homogenization. Homogenize for 5 – 10 min. while maintaining 75-80 °C.
4. Switch back to prop mixing, and mix batch for an additional 15 min. while maintaining 72-75°C.
5. Add Phase C to Phase AB under prop mixing. Increase speed as the batch starts to build in viscosity.
6. Cool batch to 35°C.
7. Add Phase D and mix until homogeneous.
8. Add Phase E and mix until homogeneous.
Cool batch to room temperature.