## **Liquid Foundation with CRODAMOL™ STS**

MU-75

This formula demonstrates the use of CRODAMOL STS in liquid make-up and highlights the outstanding emollience and feel properties of the ester, allowing the foundation to spread easily and smoothly over the face and impart a silky after feel on the skin. The formula also demonstrates the ability of CRODAFOS™ CS20A to handle a high actives load and still produce a low viscosity emulsion that has a flowing liquid consistency and gives an even application and good coverage.

Ingredients	%
Part A	
Deionized Water	59.28
Potassium Hydroxide, 10% soln.	1.00
TWEEN™ 80 (Polysorbate 80)	0.10
Part B	
Titanium Dioxide	7.00
Talc	3.76
Yellow Iron Oxide <sup>2</sup>	0.80
Red Iron Oxide <sup>3</sup>	0.38
Black Iron Oxide <sup>4</sup>	0.06
Part C	
Propylene Glycol	4.00
Magnesium Aluminum Silicate <sup>5</sup>	1.00
Part D	
Propylene Glycol	2.00
Cellulose Gum <sup>6</sup>	0.12
Part E	
CRODAMOL STS (PPG-3 Benzyl Ether Myristate)	12.00
CRODAFOS CS20A (Cetearyl Alcohol (and) Ceteth-20 Phosphate (and) Dicetyl Phosphate)	4.00
BRIJ™ S10 (Steareth	2.00
CRODACOL™ C70 (Cetyl Alcohol)	1.00
BRIJ \$2 (Steareth-2)	0.50
Part F	_
Propylene Glycol (and) Diazolidinyl Urea (and) Methylparaben (and) Propylparaben <sup>7</sup>	1.00

Suppliers: **1. Croda** 2. Yellow 338073, Sun Chemical 3. Red 7054, LCW 4. Black 33134, Sun Chemical 5. Veegum Regular, R.T. Vanderbilt 6. Cellulose Gum 7H3SF, Aqualon 7. Germaben II, ISP

pH=7.5 +/-0.5; Viscosity=3,800 cps ±10% (Brookfield RVT, spindle #4, @10 rpm RT)

## **Procedure**

Combine Part A ingredients and begin homogenizing. Combine Part B ingredients in an osterizer and mill 3 times at high speed for 15 seconds each. After milling, add Part B to Part A and continue homogenizing until uniform. Begin heating Parts A/B and add Part C ingredients as a slurry. Heat to 85–90°C, maintaining this temperature for 10

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minutes. Cool to 77°C and add Part D ingredients as a slurry; then homogenize until smooth. Remove beaker from the homogenizer and check weight. Resume homogenizing and add water to compensate for any lost from evaporation, plus an additional 20 grams. Reheat to 80-85°C. Combine Part E in a separate beaker with mixing and heat to 80-85°C. Add to Part A/B/C mixture and maintain heat for 10 minutes. Cool to 45°C and check weight again; add water, if necessary. At 40°C add Part F, mixing well with homogenizer; continue mixing until cooled to 35°C. Check pH and adjust to 7.5 with KOH if needed.

## Non-warranty

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