

## LIQUID FOUNDATION WITHOUT NATURESOFT 800 (TALC & OIL FREE)

| INGREDIENT                            | INCI NAME                                       | % W/W | SUPPLIER                  |
|---------------------------------------|---|-------|---------------------------|
| Phase A                               |   |       |                           |
| Deionized Water                       | Water   | 35.34 | N/A                       |
| Protacide NA3 EDTA                    | Tri Sodium EDTA                                 | 0.20  | Protameen Chemicals Inc.  |
| Triethanolamine 99%                   | Triethanolamine                                 | 0.90  | Huntsman                  |
| Protasorb L-20                        | Polysorbate 20                                  | 0.30  | Protameen Chemicals Inc.  |
| Butylene Glycol                       | Butylene Glycol                                 | 15.00 | Lotion Crafter            |
| Veegum F                              | Magnesium Aluminum Silicate                     | 0.70  | Vanderbilt Minerals, LLC  |
| Vanzan NF-C                           | Xanthan Gum                                     | 0.25  | Vanderbilt Minerals, LLC  |
| Phase B                               |   |       |                           |
| Covarine White WN 9787                | Titanium Dioxide, Glycerin, water               | 9.11  | Sensient Cos Technologies |
| Covarine Yellow WN 1798               | Iron Oxide Yellow, Glycerin, water              | 1.60  | Sensient Cos Technologies |
| Covarine Red WN 3798                  | Iron Oxide Yellow, Glycerin, water              | 0.40  | Sensient Cos Technologies |
| Covarine Black WN 9798                | Iron Oxide Yellow, Glycerin, water              | 0.05  | Sensient Cos Technologies |
| Rona Flair SynMica M                  | Synthetic Mica                                  | 10.00 | Rona EMD Chemicals        |
| Sericite C-15                         | Mica  | 5.00  | Miyoshi America           |
| Phase C                               |   |       |                           |
| Protachem ISP                         | Isostearyl Palmitate                            | 10.83 | Protameen Chemicals Inc.  |
| Protachem GMS-450                     | Glyceryl Stearate                               | 2.28  | Protameen Chemicals Inc.  |
| Stearic Acid TP NF                    | Stearic Acid                                    | 1.94  | Protameen Chemicals Inc.  |
| Protachem OP                          | Octyl Palmitate                                 | 5.25  | Protameen Chemicals Inc.  |
| Phase D                               |   |       |                           |
| Camellia Sinensis Extract in Glycerin | Camellia Sinensis Extract ,<br>Glycerin         | 0.15  | Bell Flavors & Fragrance  |
| Barguard CP                           | Capryl Glycol/ Phenoxyethanol / Hexylene Glycol | 0.70  | Ashland Inc.              |
|                                       | Total   | 100%  |                           |

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## **Procedure:**

- 1. Weigh Phase A ingredients: Water, EDTA, TEA & Polysorbate-20 into a separate beaker. Start mixing using propeller blade at slow to medium speed until it is uniform and clear. Now in separate a beaker add Butylene Glycol, Vee gum and Xanthan gum. Mix well make slurry and pour in to Water phase. Start heating to 165°F under high speed mixing. Once temp reach to 165°F, mix for 30 minutes till gum hydrates completely. Check by making drawdown on a white paper.
- 2. Slowly add Phase B (pigment grinds & mica) under high speed mixing. As the batch will start to thicken, continue high speed mixing till uniform phase is achieved. Mix for 30 minutes. Check for undispersed pigment by making drawdown on a white paper.
- 3. In separate beaker weigh Phase C, heat to 170° F under propeller medium speed mixing till clear.
- 4. Pour Phase C (oil phase) into Phase A+B at constant slow rate speed at 165°F to 170°F. Continue high speed mixing for 30 minutes with occasional side sweeping (emulsification step).
- 5. Cool the batch to 145°F and add Phase D ingredients individually with 5 minutes mixing time in between each addition. Maintain 145°F for 15 minutes and mix for additional 15 minutes. Cool down the batch to ambient temperature.

Micro Powders, Inc.

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