

CLEAR HYDRO-ALCOHOLIC ROLL-ON

| RAW MATERIALS | % By Weight |
|---|-------------|
| A. REZAL 67 (soln.) or REZAL 36 (soln.) | 37.5 |
| B. Propylene Glycol | 2.0 |
| C. SDA 40, 95% | 44.2 |
| D. PPG-5-Ceteth-20 (Procetyl AWS) | 2.0 |
| E. Hydroxyethyl Cellulose (Cellobond HEC 5000A) | 0.2 |
| F. Deionized Water | 14.1 |
| G. Fragrance | q.s. |

Procedure:

1. Combine E and F until clear
2. Combine A and D. Mix until dissolved.
3. Add B to step #2 with constant stirring.
4. Add step #1 with constant stirring.
5. Add C and stir until homogeneity is achieved.
6. Pour into clear glass roll-on containers.

SOURCE: Reheis Inc.: REZAL Aluminum Zirconium Chlorohydrate
Complexes Super Dry Actives: Formulation

CLEAR HYDRO-ALCOHOLIC ROLL-ON

| RAW MATERIALS | % By Weight |
|---|-------------|
| A. REZAL 36P or REZAL 67P | 15.0 |
| B. Propylene Glycol | 2.0 |
| C. SDA 40, 95% | 44.2 |
| D. PPG-5-Ceteth-20 (Procetyl AWS) | 2.0 |
| E. Hydroxyethyl Cellulose (Cellobond HEC 5000A) | 0.2 |
| F. Deionized Water | 36.6 |
| G. Fragrance | q.s. |

Procedure:

1. Combine E and F. Mix until clear.
2. Slowly add A and mix until dissolved.
3. Add D, then B with constant stirring.
4. Add C slowly. Stir until homogeneity is achieved.

Note: If a higher pH is desired when formulating with REZAL 36P, a suitable buffering agent may be added in step 2. The pH of the finished formula should not exceed 4.3.

SOURCE: Reheis Inc.: REZAL Aluminum Zirconium Chlorohydrate
Complexes Super Dry Actives: Formulation