FRESH & SMOOTH MOISTURIZING HAND SANITIZER with Floraesters K-20W® Jojoba

This light and fresh hand sanitizer with Floraesters K-20W Jojoba is formulated to leave skin feeling hydrated without a tacky residue. The formula contains a high amount of ethanol (70%) to sanitize the hands while the unique synergy of Floraesters K-20W Jojoba and glycerin moisturizes the skin (ref. CS09-014), leaving a silky-smooth skin feel.

**PROCESS**

1. Add the Carbopol Ultrez 10 Polymer to the deionized water of Phase A at room temperature. Leave the polymer for self-wetting.
2. In a separate vessel, mix all ingredients of Phase B with moderate propeller agitation. Heat to 35-40°C. Keep mixing until the Klucel® H CS Hydroxypropylcellulose and the Natrosol® 250 HR CS are completely hydrated. Cool to room temperature.
3. Begin mixing Phase A with moderate propeller agitation until the Carbopol Ultrez 10 Polymer is completely hydrated. Add Phase B to Phase A at room temperature with moderate propeller agitation.
4. Add Phase C to Phase AB with moderate propeller agitation. The mixture will begin to gel.
5. In a separate vessel, mix all ingredients of Phase D before adding to Phase ABC with moderate propeller agitation.
6. Add Phase E to Phase ABCD with moderate propeller agitation to completely neutralize the Carbopol Ultrez 10 Polymer.

**CHARACTERISTICS**

- **pH:** 6 - 7
- **Viscosity:** 44 - 58kcP

**Phase** | **Trade Name** | **INCI** | **Supplier** | **%WT**
---|---|---|---|---
A | Deionized Water | Water | - - - - - | q.s.
  | Carbopol® Ultrez 10 Polymer | Carbomer | The Lubrizol Corporation | 0.50
B | Glycerine 99.7% USP Kosher | Glycerin | Acme-Hardesty Co | 1.00
  | Klucel® H CS Hydroxypropylcellulose | Hydroxypropylcellulose | Ashland | 0.004
  | Natrosol® 250 HR CS Hydroxyethylcellulose | Hydroxyethylcellulose | Ashland | 0.003
  | Deionized Water | Water | - - - - - | q.s.
C | Ethanol Solutions 3, UN 1170, PG II, SDA 40-B, 200 Proof | Alcohol Denat. | Remet Corporation | 65.00
D | Ethanol Solutions 3, UN 1170, PG II, SDA 40-B, 200 Proof | Alcohol Denat. | Remet Corporation | 5.00
  | Floraesters K-20W Jojoba | Hydrolyzed Jojoba Esters (and) Water (Aqua) | Cargill Beauty | 0.50
  | AMP-Ultra® PC 2000, Neutralizing Amine | Aminomethyl Propanol | Angus Chemical Company | q.s.

* Claim Sheet CS09-014: Increased Skin Hydration with K-20W Jojoba Plus Glycerin