

# FRESH & SMOOTH MOISTURIZING HAND SANITIZER

with Floraesters K-20W<sup>®</sup> 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<sup>1</sup>), leaving a silky-smooth skin feel.

Phase	Trade Name	INCI	Supplier	%WT
A	Deionized Water	Water	-----	q.s.
	Carbopol <sup>®</sup> Ultrez 10 Polymer	Carbomer	The Lubrizol Corporation	0.50
B	Glycerine 99.7% USP Kosher	Glycerin	Acme-Hardesty Co	1.00
	Klucel <sup>®</sup> H CS	Hydroxypropylcellulose	Ashland	0.004
	Hydroxypropylcellulose			
	Natrosol <sup>®</sup> 250 HR CS	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
	<b>Floraesters K-20W Jojoba</b>	<b>Hydrolyzed Jojoba Esters (and) Water (Aqua)</b>	<b>Cargill Beauty</b>	<b>0.50</b>
E	AMP-Ultra <sup>®</sup> PC 2000, Neutralizing Amine	Aminomethyl Propanol	Angus Chemical Company	q.s.

<sup>1</sup> Claim Sheet CS09-014: Increased Skin Hydration with K-20W Jojoba Plus Glycerin

## CHARACTERISTICS

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

## 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 Natrosal 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.



**PATENTS AND REGULATIONS** The information presented herein is intended to illustrate the possible technical applications of our products. However, since the use of this information and our products is beyond our control, any recommendations or suggestions are made without guarantee of warranty in each country and particularly in the absence of patent rights. In addition, we recommend that the user ensures that this product is in compliance with the local regulations in force, particularly in the country where the finished product is to be consumed. It is the responsibility of the user to comply with the patents and the regulations in force. This formula has not been tested for sanitizing efficacy, and the manufacturer is responsible for ensuring the efficacy of any hand sanitizer formula. Cargill has not tested Floraesters K-20W Jojoba in final OTC drug formulations. Compliance with FDA regulations is the responsibility of the customer.

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