



Barrier Repair Hand Sanitizer

Product Highlighted: *Floraesters K-20W® Jojoba*



This formula results in an effective antibacterial hand sanitizer. The clear gel delivers jojoba emolliency from the Floraesters® K-20W Jojoba. Floraesters K-20W Jojoba neutralizes the polymer, eliminating the need for diisopropanolamine (DIPA) or triethanolamine (TEA). Clinical research has found that the use of hand sanitizers with Floraesters K-20W Jojoba results in increased skin hydration. 🏆*

Phase	Trade/Common Name	INCI Name	Manufacturer	%wt/wt
A.	Deionized Water	Water	-----	q.s.
	Carbopol® ETD 2020 Polymer	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Lubrizol Corporation	0.25
	Deionized Water	Water	-----	q.s.
	Klucel® Hydroxypropylcellulose HCS	Hydroxypropylcellulose	Ashland, Inc.	0.50
B.	Floraesters K-20W Jojoba	Hydrolyzed Jojoba Esters (and) Water (Aqua)	Floratech	1.00
	Glycerox 767	PEG-6 Caprylic/Capric Glycerides	Croda, Inc.	1.00
	Glycerin, USP	Glycerin	The Dow Chemical Co.	1.00
C.	Ethanol Solutions 3, UN 1170, PG II, SDA 40-2, 200 Proof	Alcohol Denat.	Remet Corporation	62.00
Total				100.00

Mixing Procedure

1. At room temperature, add the Carbopol ETD 2020 Polymer to the deionized water. Allow the Carbopol EDT 2020 Polymer to completely hydrate in deionized water.
2. In a separate vessel, add the Klucel HCS to the deionized water. Mix until completely dissolved. Combine the Klucel HCS with the Carbopol ETD 2020 Polymer solution.
3. In a separate vessel, mix ingredients of Phase B. Add Phase B to ¼ of Phase C. Mix until completely dissolved.
4. Slowly add Phase BC to Phase A with rapid propeller agitation. Add the remaining portion of Phase C. Solution should become clear.

Typical Properties: pH: 5 - 6
Viscosity: 900 - 1900cP

Note: The information herein is based on our research and the research of others and is believed to be accurate. No guarantee of accuracy is made and the products are provided without warranty, expressed or implied and upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes. Likewise, statements concerning the possible use of these products are not intended as recommendations to use these products in infringement of any patent or in the treatment, prevention, or cure of any medical condition. INCI/trade names must be verified with each manufacturer. (Cleared for Public Disclosure)