



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. Research has found that the use of hand sanitizers with Floraesters K-20W Jojoba results in a lower transepidermal water loss (TEWL) value, a key indicator of increased skin barrier function. In addition, Floraesters K-20W Jojoba will neutralize the polymer in this formula, eliminating the need for diisopropanolamine (DIPA) or triethanolamine (TEA).

Phase	Trade/Common Name	INCI Name	Manufacturer	%wt./wt.
A.	Deionized Water	Water	-----	22.75
	Carbopol® ETD 2020 Polymer	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Lubrizol Corporation*	0.25
	Deionized Water	Water	-----	11.50
	Klucel® 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.	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 Carbopol EDT 2020 Polymer to completely hydrate in deionized water.
2. In a separate container, add the Klucel HCS to the deionized water. Mix until completely dissolved. Combine the Klucel HCS with the Carbopol ETD 2020 Polymer solution.
3. Mix 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: 5.1 - 5.6
Viscosity (cP): 972-1,866

* Supplied by Essential Ingredients

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 sold 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. (Cleared for Public Disclosure).

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