



Barrier Repair Hand Sanitizer



a **Cargill** company

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® H CS Hydroxypropylcellulose	Hydroxypropylcellulose	Ashland	0.50
B.	Floraesters K-20W Jojoba	Hydrolyzed Jojoba Esters (and) Water (Aqua)	Floratech	1.00
	Glycerox 767	PEG-6 Caprylic/Capric Glycerides	Croda International	1.00
	Glycerine 99.7% USP Kosher	Glycerin	Acme-Hardesty 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

- 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.
- In a separate vessel, add the Klucel H CS Hydroxypropylcellulose to the deionized water. Mix until completely dissolved. Combine the Klucel H CS Hydroxypropylcellulose with the Carbopol ETD 2020 Polymer solution.
- In a separate vessel, mix ingredients of Phase B. Add Phase B to ¼ of Phase C. Mix until completely dissolved.
- 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, stability or safety 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. This formula has not been tested for sanitizing efficacy, and the manufacturer is responsible for ensuring the efficacy of any hand sanitizer formula. (Cleared for Public Disclosure)

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🏆* Efficacy Data Available (ref. Claim Sheet [CS09-013](#): Increased Skin Hydration with Floraesters K-20W Jojoba)