

MAKING THE BEST GEL HAND SANITIZER



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Achieve a clear, thick sanitizing gel that:

- Kills germs
- Increases skin hydration
- Reduces irritation
- Meets or exceeds CDC & WHO guidelines
- Enhances silky skin feel
- Reduces tackiness
- Protects skin
- Reduces drying time

Formula Components & Options:

Alcohol:

Kills germs

- Ethanol** (>60%)
- Isopropyl Alcohol¹ (>70%)

Thickeners:

Form the gel (0.25% - 5%)

- Carbopol® Ultrez 10**
- Carbopol ETD 2020
- Carbopol Aqua SF-1

Neutralizers:

Activate the thickener (< 0.5%)

- Aminomethyl Propanol
- Floraesters® K-20W Jojoba**
- Floraesters K-100® Jojoba
- Triethanolamine

Humectants:

Moisturize Skin (1 - 5%)

- Floraesters K-20W® Jojoba**
- Glycerin/Glycerol**
- Butylene Glycol
- Propylene Glycol

Emollients:

Maintain skin barrier (1%)

- Floraesters K-20W Jojoba**
- Isopropyl Palmitate
- Isopropyl Myristate
- Capric Caprylic Triglycerides

Optional Ingredients:

Enhance skin feel

- Hydroxypropylcellulose
- Hydroxyethylcellulose
- Aloe Vera (label claim)

Formula: Thick & Clear Gel Hand Sanitizer

Phase	Trade/Common Name	INCI Name	Manufacturer	%wt/wt
A.	Deionized Water Carbopol® Ultrez 10 Polymer	Water Carbomer	----- The Lubrizol Corp	22.71 0.50
B.	Glycerine 99.7% USP Kosher Klucel® Hydroxypropylcellulose HCS Natrosol® 250 HR CS Deionized Water	Glycerin Hydroxypropylcellulose Hydroxyethylcellulose Water	Acme-Hardesty Co Ashland, Inc. Ashland, Inc. -----	1.00 0.004 0.003 5.00
C.	Ethanol, 200 Proof ²	Alcohol Denat.	Remet Corp	65.00
D.	Ethanol, 200 Proof ² Floraesters K-20W Jojoba	Alcohol Denat. Hydrolyzed Jojoba Esters (and) Water (Aqua)	Remet Corp Floratech	5.00 0.50
E.	AMP-Ultra® PC 2000, Neutralizing Amine	Aminomethyl Propanol	Angus Chemical Co	0.28
Total				100.00

Target pH 6.5 – 7.5 [Mixing Procedure](#)

Request a Sample

Floraesters K-20W Jojoba

Efficacy Data

Formula

** Recommended Ingredient

1. Isopropyl alcohol is less favored by users as it takes longer to evaporate. 2. USP or alternative OTC grade Ethanol
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