

GENTLE TOUCH HAND SANITIZER

WITH GLYCERIN

Generally recognized as safe by the U.S. Food and Drug Administration (FDA), vegetable-derived Glycerin helps to hydrate the stratum corneum, improve skin's barrier function and mechanical properties, and protect from irritants when used in this simple, gentle hand sanitizer formulation.

Formulated with AMP-ULTRA™ PC 2000 for outstanding gel neutralization, superior gel clarity and enhanced stability, even at challenging high-alcohol levels.

Phase		Trade name	INCI name	Supplier	Wt%
A	1.	Water	Aqua (Water)	-	Q.S.
	2.	Glycerin vegetable	Glycerin	Univar Solutions	2.00%
	3.	Carbopol* 980 polymer	Carbomer	Lubrizol	0.25%
B	4.	Ethanol (96%)	Ethanol	-	70.0%
C	5.	AMP-ULTRA PC 2000	Aminomethyl Propanol	ANGUS	0.08%

PROCEDURE

1. Combine Water and Glycerin together, mixing with a propeller stirrer at 300-500 rpm until uniform.
2. Carefully disperse Carbomer into the mixture. Mix gently until the polymer is hydrated, and the dispersion is smooth and free of lumps.
3. Change the propeller stirrer to a paddle and slowly add the Ethanol with agitation, mixing until homogeneous.
4. Add the AMP-ULTRA PC 2000 with gentle agitation (100 rpm) and mix until smooth and homogeneous.
5. Adjust pH with additional AMP-ULTRA PC 2000 to 7.2.

FORMULATION PROPERTIES AND NOTES

- Appearance: Transparent gel
- pH: 7.2
- Stability: 2 months at room temperature and 45°C
- Viscosity: 16,300 cP (Brookfield RVDV-IIT, spindle 4, 6 rpm, 1 min, 20°C)
- Formulation Reference: P.HS.P.2021.4

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