

# EFFECTIVE OPTIONS HAND SANITIZER

## WITH LUVISET\* 360 POLYMER

When supply issues force formulators to think outside the box, Luviset 360 polymer provides an effective option for high-Ethanol hand sanitizer systems. This Acrylates Copolymer rheology modifier can be used to create hand sanitizer products with Ethanol content up to 70%. When formulating with Luviset 360, AMP-ULTRA™ PC 2000 provides improved viscosity, clarity and stability compared to Triethanolamine (TEA) and inorganic neutralizers.

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

Phase		Trade name	INCI name	Supplier	Wt%
A	1.	Water	Aqua (Water)	-	Q.S.
	2.	Luviset 360 polymer	Acrylates Copolymer	BASF	5.00%
B	3.	Ethanol (96%)	Ethanol	-	70.00%
C	4.	AMP-ULTRA PC 2000	Aminomethyl Propanol	ANGUS	0.23%

### PROCEDURE

1. Mix water and Luviset 360 polymer using a paddle stirrer at 100-150 rpm.
2. Add Ethanol and mix until uniform.
3. Add the AMP-ULTRA PC 2000 with gentle agitation (100-150 rpm) and mix until smooth and homogeneous.
4. Adjust pH with additional AMP-ULTRA PC 2000 to 7.3-7.5.

### FORMULATION PROPERTIES AND NOTES

- Appearance: Transparent gel
- pH: 7.3-7.5
- Stability: 2 months at room temperature and 45°C
- Viscosity: 2,100 cP (Brookfield RVDV-IIT, spindle 4, 6 rpm, 1 min, 20°C)
- Formulation Reference: P.HS.P.2021.6