

ESSENTIAL CARE HAND SANITIZER

WITH TEA TREE OIL

Derived from the leaves of the native Australian plant, *Melaleuca alternifolia*, organic Tea Tree Oil lends its natural antimicrobial and anti-inflammatory properties to this unique hand sanitizer formulation. It is designed to kill 99.99% of germs while conditioning skin and leaving it feeling soft and moisturized.

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.	Tea Tree Oil (Organic)	Melaleuca Alternifolia (Tea Tree) Leaf Oil	Earth Oil by Univar	0.10%
	3.	Carbopol* 980 polymer	Carbomer	Lubrizol	0.25%
B	4.	Ethanol (96%)	Ethanol	-	70.0%
C	5.	AMP-ULTRA PC 2000	Aminomethyl Propanol	ANGUS	0.06%

PROCEDURE

1. Combine water and Tea Tree Oil 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: 16.400 cP (Brookfield RVDV-IIT, spindle 4, 6 rpm, 1 min, 20°C).
- Formulation Reference: P.HS.P.2021.3

DISCOVER A **BETTER WAY**™

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