



Conditioning Hand Sanitizer Gel- 65% Ethanol

Formulation #GL2009

Paper (Guide) Formulation

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Conditioning Hand Sanitizer Gel* contains Brontide® and dermofeel® Sensolv MB to moisturize, soothe and protect skin. Jaguar® HP-120 is a natural thickener that is compatible with high levels of ethanol and imparts a conditioning feel to the formulation. Hands are left feeling clean, nourished and refreshed.

How to use: Apply liberally to hands and rub for 20 seconds. Reapply as needed.

*This formulation is a guide formulation and has not been tested. User assumes all risks.

Formulation:

PHASE	TRADE NAME	INCI NOMENCLATURE	WT, %	SUPPLIER	FUNCTION
A	Water, Distilled	Water	30.3		Carrier
	Brontide®- Natural Butylene Glycol	Butylene Glycol	3.0	Genomatica/ Glenn	Humectant
	Ethanol	Ethanol	20.0		Active
	Jaguar® HP-120	Hydroxypropyl Guar Hydroxypropyltrimonium Chloride	1.2	Solvay/ Glenn	Natural Thickener
	Citric Acid, 50%	Citric Acid and Water	QS		pH Adjuster
B	Ethanol	Ethanol	45.0		Active
	dermofeel® Sensolv MB	Isoamyl Laurate	0.5	Evonik/ Glenn	Emollient
C	Sodium Hydroxide, 50%	Water and Sodium Hydroxide	QS		pH Adjuster



Procedure:

1. Add Water, Brontide and 20% Ethanol to vessel and begin mixing to create a vortex.
2. Slowly add Jaguar HP-120 and mix for 15 minutes.
3. Adjust pH to 4.0-4.5 with citric acid. Mix for another 20-30 minutes to fully hydrate.
4. Premix Phase B in a separate vessel.
5. Gradually add Phase B into Phase A and mix until homogeneous.
6. Adjust pH to 5.0-7.0 using Sodium Hydroxide solution.

Results:

Appearance: Translucent, viscous liquid

pH @ 25°C: 5.0-7.0

Viscosity @ 25°C (LVT Spindle D @ 12rpm): 3,000-5,000 cPs

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