



HAND SANITIZER WITH 70% ALCOHOL

LAMCOS 168

Phase	Inci name	Trade name	% w/w
A			
1	Aqua (Water)		To 100
2	Alcohol (Ethanol)		70.0
3	Hydroxypropyl Guar	ESAFLOR® HDR	1.5
4	Citric acid, 20% soln.		To pH ~ 5.5
B			
1	Glycerin		0.5
2	Propylene Glycol		0.5
C			
1	Citrus Medica Limonum Oil		0.25
2	PEG-40 Hydrogenated Castor Oil, Trideceth-9, Aqua	ALPICARE NS	0.5

Manufacturing Procedure:

Add A1 and A2 into the main vessel. Slowly add A3 under vigorous stirring; stir until the powder is completely dispersed. Adjust pH to about 5.5 with A4. Keep stirring for at least 30', to ensure the complete hydration of the polymer. Viscosity will develop.

Add B1 and B2 to the main vessel, under stirring. In a support vessel, premix C1 and C2 until a clear solution is obtained. Add phase C to the main vessel, under stirring.

General Characteristics:

Appearance: viscous hazy liquid

Odour: lemony

pH: ~ 5.5

Main Features:

ESAFLOR® HDR is a rheology modifier, extremely effective also with high alcohol content. It also combines excellent sensorial properties: hands remain soft after sanitizing, despite the presence of alcohol.

ALPICARE NS is an extremely effective fragrance solubiliser, based on non-ionic surfactants.

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