



# Formulation

No. 4004

## Waterless Hand Cleaner (with Limonene)

### DESCRIPTION

This formulation features **Cola®Det DEF-40** and **Poly Suga®Mulse D9**. This waterless hand cleaner uses natural limonene quickly dissolves soil for easy removal with a cloth or paper towel. Contains natural emollients to keep the skin soft and supple.

### FORMULATION

Order	INCI Name	Trade Name	%
1	Limonene	Limonene	40.80
2	Anionic / Amide blend	<b>Cola®Det DEF-40</b>	15.30
3	Glycerin	Glycerin	1.00
4	Sorbitan Oleate Decylglucoside Crosspolymer	<b>Poly Suga®Mulse D9</b>	0.50
5	Water	Water	qs to 100.00

### PROCEDURE

1. Combine ingredients 1-4 in primary vessel. Heat to 70°C.
2. In separate vessel, heat water to 70°C.
3. Add water to primary vessel. Mix 30 minutes while cooling.
4. Transfer batch to final container while warm. Allow to cool to room temperature.

### TYPICAL PROPERTIES

Appearance      Ringing Gel  
pH                    8.0 – 9.0  
Viscosity           200,000 cps

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