



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		40.80
2	Anionic / Amide blend	<i>Cola®Det DEF-40</i>	15.30
3	Glycerin		1.00
4	Sorbitan Oleate Decylglucoside Crosspolymer	<i>Poly Suga®Mulse D9</i>	0.50
5	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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