



# Formulation

No. 4012

## Hand Soap (Sulfate-Free, EO-Free)

### DESCRIPTION

This formulation features **Suga®Nate 160NC**, **Cola®Teric LMB** and **Cola®Mid LMPA** for a soft clean that's free from sulfates and ethoxylates!

### FORMULATION

Order	INCI Name	Trade Name	%
1	Water		qs to 100.00
2	Sodium Laurylglucosides Hydroxypropylsulfonate	<b>Suga®Nate 160 NC</b>	14.00
3	Lauramidopropyl Betaine	<b>Cola®Teric LMB</b>	9.00
4	Lauramide MIPA	<b>Cola®Mid LMPA</b>	0.25
5	Sodium Stearoyl Lactylate	Pationic SLL <sup>1</sup>	0.25
6	Sodium Methyl Cocoyl Taurate, 38%	Pureact WS Conc <sup>2</sup>	5.00
7	Methylchloroisothiazolinone <i>and</i> Methylisothiazolinone	Kathon™ CG <sup>3</sup>	0.05

### PROCEDURE

1. Combine ingredients 1-3 in order with moderate mixing.
2. Heat to 60°C.
3. Add 4-6. Mix at temperature until clear and homogeneous.
4. Cool below 50°C.
5. Add 7. Adjust pH to 6.0 with Citric Acid.

### TYPICAL PROPERTIES

Appearance      Clear Liquid  
pH                    6.0  
Viscosity           8,000 cps

### SUPPLIERS

<sup>1</sup>RITA, <sup>2</sup>Innospec, <sup>3</sup>Dow

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