



Suga®Nate 160NC

Starting Formulations for 100% Biobased Surfactant

INCI NAME Sodium Laurylglucosides Hydroxypropylsulfonate
CAS NUMBER 742087-49-6
LISTINGS USA (TSCA); EU (REACH); Canada (NDSL); Australia (AICS); Japan (ENCS); Korea (ECL); New Zealand (NZIoC)



**100%
Natural
Carbon
Biobased**



Ultra Mild Color Protection Shampoo #1021

Trade Name (INCI Name)	%
A Water	qs to 100.00
A Suga®Nate 160NC (Sodium Laurylglucosides Hydroxypropylsulfonate)	36.00
A Cola®Teric LMB (Lauramidopropyl Betaine)	24.00
A Cola®Lipid C (Cocamidopropyl PG-Dimonium Chloride Phosphate)	2.00
A Mirasil® ADME-P¹ (Aqua and Amodimethicone and Trideceth-6 and Methylchloroisothiazolinone)	2.00
B Sodium Stearoyl Lactylate	1.90
B Poly Suga®Mulse D9 (Sorbitan Oleate Decylglucoside Crosspolymer)	0.50
B Cola®Teric 2C-LV (Disodium Cocoamphodiacetate)	10.00
C Preservative, Fragrance	qs

Procedure: Combine phase A ingredients with adequate mixing between additions. In a separate vessel, combine phase B ingredients with heat. Once phase B is homogeneous, add to phase A. Cool to 45°C. Add remaining ingredients, adjust pH to 5.5 – 6.0 with citric acid.

Typical Properties: Appearance: Clear Liquid pH: 5.0 – 6.0
Viscosity: 2,500 cps

Suppliers: ¹Bluestar Silicones

Silicone-Free Luxury Shampoo #1009

Trade Name (INCI Name)	%
1 Water	qs to 100.00
2 Suga®Nate 160NC (Sodium Laurylglucosides Hydroxypropylsulfonate)	25.00
3 Cola®Teric CBS-HP (Cocamidopropyl Hydroxysultaine [Fatty Acid])	7.00
4 Cola®Lipid C (Cocamidopropyl PG-Dimonium Chloride Phosphate)	4.00
5 Cola®Mate LA-40 (Disodium Lauryl Sulfosuccinate)	2.00
6 Pureact WS Conc¹ (Sodium Methyl Cocoyl Taurate)	5.00
7 Glycol Distearate	0.25
8 Plantapon® ACG HC² (Sodium Cocoyl Glutamate)	4.00
9 Kathon™ CG³ (Methylchloroisothiazolinone and Methylisothiazolinone)	0.04
10 Green Tea⁴ (Fragrance)	0.20

Procedure: Combine ingredients 1-4 with mixing. Heat to 60°C. Add ingredients 5-7. Once dissolved, cool below 50°C. Once cooled, add remaining ingredients. Adjust pH to 5.5 – 6.0.

Typical Properties: Appearance: Pearlescent pH: 5.5 – 6.0
Viscosity: 6,500 cps

Suppliers: ¹Innospec, ²BASF, ³Dow, ⁴Premier

Foaming Bath Gel #2028

Trade Name (INCI Name)	%
1 Water	qs to 100.00
2 Suga®Nate 160NC (Sodium Laurylglucosides Hydroxypropylsulfonate)	27.00
3 Cola®Teric LMB (Lauramidopropyl Betaine)	18.00
4 Cola®Mate OPV (Disodium Oleamido MIPA Sulfosuccinate)	9.00
5 Phenostat™¹ (Caprylhydroxamic Acid and Phenoxyethanol and Methylpropanediol and Water)	0.50
6 Island Luau¹ (Fragrance)	0.20

Procedure: Combine ingredients in order with adequate mixing between additions. Adjust pH as needed.

Typical Properties: Appearance: Clear Liquid pH: 6.0 – 6.5
Viscosity: 8,000 cps

Suppliers: ¹Inolex, ²Arylessence

Children's Shampoo

#1022

Trade Name (INCI Name)	%
1 Water	qs to 100.00
2 Suga®Nate 160NC (Sodium Laurylglucosides Hydroxypropylsulfonate)	19.00
3 Cola®Teric COAB (Cocamidopropyl Betaine)	6.00
4 PolySuga®Glycinate C (Sodium Bis-Hydroxyethylglycinate Coco-Glucosides Crosspolymer)	3.00
5 Pureact MS-CG² (Sodium Methyl Oleoyl Taurate)	7.00
6 Cola®Lipid C (Cocamidopropyl PG-Dimonium Chloride Phosphate)	2.00
7 Sodium Stearoyl Lactylate	0.50
8 Blueberry Fragrance	0.05
9 Preservative	qs

Procedure: Combine ingredients 1-4 with adequate mixing between additions. Heat to 50-60°C. Add ingredients 5-7, mixing until completely dissolved and homogeneous. Cool to 45°C and add remaining ingredients.

Typical Properties: Appearance: Clear Liquid pH: 6.0 Viscosity: 4,000 cps

Suppliers: ¹HallStar, ²Innospec, ³Belle-Air Fragrances, ⁴Dow

Economy Hand Soap (Sulfate-Free)

#4008

INCI Name	Trade Name	%
1 Water		qs to 100.00
2 Suga®Nate 160NC (Sodium Laurylglucosides Hydroxypropylsulfonate)		13.50
3 Cola®Teric LMB (Lauramidopropyl Betaine)		9.00
4 Cola®Mid LMPA (Lauramide MIPA)		0.25
5 Crothix¹ PEG-150 (Pentaerythrityl Tetrastearate)		0.10
6 Cola®Mate DSLS (Disodium Laureth Sulfosuccinate)		4.00
7 Preservative		qs
8 Mystic Forest² (Fragrance)		0.15

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

Typical Properties: Appearance: Clear Viscous Liquid pH: 6.0

Viscosity: 8,000 cps

Suppliers: ¹Croda, ²Belle-Aire Fragrances

Natural Body Wash (Betaine-Free)

#2018

Trade Name (INCI Name)	%
1 Water	qs to 100.00
2 Suga®Nate 160NC (Sodium Laurylglucosides Hydroxypropylsulfonate)	19.20
3 Cola®Mate LA-40 (Disodium Lauryl Sulfosuccinate)	4.00
4 Cola®Teric CBS-HP (Cocamidopropyl Hydroxysultaine [Fatty Acid])	9.60
5 Island Luau¹ (Fragrance)	0.20
6 Preservative	qs
7 Citric Acid	qs

Procedure: Combine ingredients 1-2. Heat to 45°C. Add remaining ingredients. Adjust pH to 5.0 - 5.5 with citric acid (viscosity is pH dependent).

Typical Properties: Appearance: Clear Liquid pH: 5.0 - 5.5 Viscosity: 8,000 cps

Suppliers: ¹Arylescence

Foaming Cream Wash

#2021

Trade Name (INCI Name)	%
1 Water	qs to 100.00
2 Suga®Nate 160NC (Sodium Laurylglucosides Hydroxypropylsulfonate)	30.00
3 Cola®Teric CBS (Cocamidopropyl Hydroxysultaine)	15.00
4 Cola®Lipid SAFL (Linoleamidopropyl PG-Dimonium Chloride Phosphate)	1.50
5 HallStar® EGDS¹ (Glycol Distearate)	2.50
6 Cola®Mate SS-40 (Disodium Cocamido MIPA-Sulfosuccinate)	7.00
7 Pureact MS-CG² (Sodium Methyl Oleoyl Taurate)	6.00
8 White Lily³ (Fragrance)	0.10
9 Kathon™ CG⁴ (Methylchloroisothiazolinone and Methylisothiazolinone)	0.07

Procedure: Combine ingredients 1-4. Heat to 65-70°C. Add 5-7 and allow to melt completely. Once homogeneous, slowly cool below 50°C. Add 8-9. Adjust pH with citric acid as needed.

Typical Properties: Appearance: Pearlescent pH: 6.0

Viscosity: 12,000 cps

Suppliers: ¹HallStar, ²Innospec, ³Belle-Air Fragrances, ⁴Dow

ADDITIONAL LISTINGS



NPA Certified Ingredient
 NSF/ANSI 305-2012
 DfE (CleanGredients)
 Whole Foods Premium Body Care
 USDA Biopreferred Product
 ★ GreenStar™ Rating of **10.0**



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Natural Surfactants



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