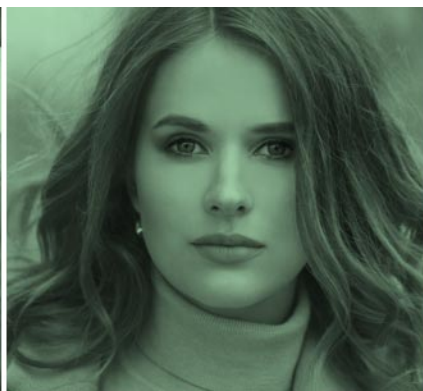


Hand Soaps and Sanitizers

Dennis Abbeduto, Personal Care Business Manager

Molly McEnergy, Senior Applications Chemist



WASH YOUR HANDS

PREVENT ILLNESS BY WASHING YOUR HANDS!



1 Wet your hands



2 Apply soap



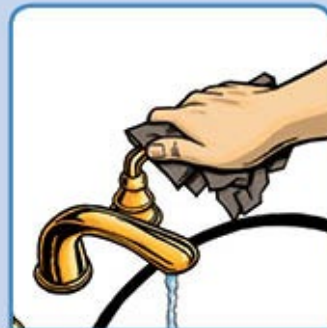
3 Lather & scrub (20 secs)

DONT FORGET TO WASH:

- between your fingers
- under your nails
- tops of your hands



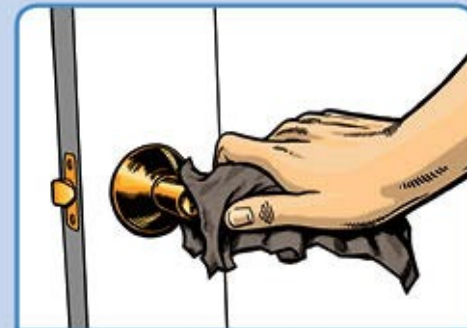
4 Rinse (10 secs)



5 Turn off tap



6 Dry your hands



7 Open door with paper towel



“Fluid Situation” is the Phrase of the Month

- No one knows or even has an estimate of the pandemic “denominator” is
- No one knows when the infection curve will begin trending downward
 - Not all regions will have the same progress of infection
- No one knows when things will return to “normal”
- No one knows what the lasting effect to the global economy will be

- We do know
 - Everyone is suddenly interested in hand and hard surface sanitization
 - Most with new interest have no knowledge of relevant regulations
 - We cannot help people navigate EPA and FDA regulations
 - **We are ready to supply surfactants for ALL applications**

EPA Links

- <https://www.epa.gov/coronavirus>
- <https://www.epa.gov/coronavirus/frequent-questions-about-coronavirus-disease-covid-19>
- <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>

FDA Links

- <https://www.fda.gov/drugs/information-drug-class/topical-antiseptic-products-hand-sanitizers-and-antibacterial-soaps>
- <https://www.fda.gov/drugs/status-otc-rulemakings/rulemaking-history-otc-topical-antimicrobial-drug-products>
- <https://www.fda.gov/consumers/consumer-updates/antibacterial-soap-you-can-skip-it-use-plain-soap-and-water>

What CAN We Offer?

- A LOT!
- We do have plenty of things that will improve feel of foaming alcohol
 - Some even give added benefits!
- **ColaLipid C** to improve many aspects of alcohol sanitizers
 - Skin conditioning, Detergency, Foam, Mildness, Antimicrobial activity
 - But NOT an FDA or EPA active ingredient
- **Poly SugaQuats**
 - Also NOT FDA or EPA active ingredients
- **Colonial Monolaurin**
 - Also NOT an FDA or EPA active ingredient

Offerings for Antiseptic Washes

- We try to avoid anionic surfactants which may inhibit efficacy of actives
- Not a rule, so many products still include SLES, other anionics
- **ColaTeric CBS-HP** to improve foam and viscosity of all types of cleansers
- **ColaLiquid SCMPA** for added viscosity building
- **Poly SugaMulse D9** for 100% bio-based fragrance solubilization
- **ColaLux LO** or **ColaLux CAO-35** for foaming and detergency
- **ColaLipid C** to improve many aspects of antiseptic washes
 - Skin conditioning, Detergency, Foam, Mildness, Antimicrobial activity
 - But NOT an FDA or EPA active ingredient

Moisturizing Now More than Ever

- All this hand washing and sanitizing is going to have people more worried than ever about how drying and irritating these products can be
- We need to talk to everyone about our refatting and moisturizing additives
- **ColaMoist 200**
- **Poly SugaMulse D9**
- **ColaMulse 3GO**
- **ColaMid AME**
- **ColaQuat SLCC**

Product Safety is Still Paramount

- Interest will be higher than ever in safe, mild products for washing
- With increased exposure comes increased concern about what goes on skin
- We expect an acceleration of efforts to eliminate “bad guy” ingredients from formulations
 - Sulfates
 - PEGs
 - Synthetic fragrances
 - Petrochemical derivatives
- Will there be a new attitude about product preservation?
 - Longer shelf life
 - Thinking more about microbes

PEG-Free Options

- PEG-free mild surfactants
 - **SugaNate**
 - **Poly SugaPhos**
 - **ColaTeric Sultaines**
 - **ColaTeric Amphoacetates**
(soon ampho-sultaines)
 - **Poly SugaMulse**
- PEG-free thickening aids
 - **ColaLux SAO**
 - **ColaLiquids**
 - **ColaTeric HBS**
- PEG-free emulsifiers
 - **ColaFax CPE**
 - **ColaFax CPE-K**
 - **Poly SugaMulse**
 - **Colonial Monolaurin MB**
 - **ColaLipid SAFL**

Formulation #2065 Cleanser

INCI	Ingredient	%
Water	DI Water	qs to 100.00
Sodium Laurylglucosides Hydroxypropylsulfonate	<i>Suga[®]Nate 160NC</i>	19.00
Cocamidopropyl Hydroxysultaine	<i>Cola[®]Teric CBS</i>	8.00
Disodium Lauryl Sulfosuccinate	<i>Cola[®]Mate LA-40</i>	4.00
Cannabis Seedamidopropyl Hydroxysultaine	<i>Cola[®]Teric HBS</i>	2.00
Hydroxypropyl Bis-Hydroxyethylidimonium Chloride	<i>Cola[®]Moist 200</i>	2.00
Sodium Benzoate <i>and</i> Potassium Sorbate	Euxyl [®] K712	1.00
Fragrance	Fragrance	0.15
Citric Acid	Citric Acid 50%	qs to pH

Property	Typical
Appearance	Clear, Viscous Liquid
pH	5.0 – 5.5
Viscosity @ 25C (LV3)	4,000 – 6,000 cP

Formulation #1037 Cleanser

INCI	Ingredient	%
Water	DI Water	qs to 100.00
Sodium Laurylglucosides Hydroxypropylsulfonate	<i>Suga[®]Nate 160NC</i>	13.00
Lauramidopropyl Hydroxysultaine	<i>Cola[®]Teric LMHS</i>	15.00
Disodium Lauryl Sulfosuccinate	<i>Cola[®]Mate LA-40</i>	8.00
Hydroxypropyl Bis-Hydroxyethyltrimonium Chloride	<i>Cola[®]Moist 200</i>	3.00
Polyquaternium-81	<i>Poly Suga[®]Quat S1210P</i>	2.00
Sodium Benzoate and Potassium Sorbate	Euxyl [®] K712	1.00
Fragrance	Fragrance	0.20
Citric Acid	Citric Acid 50%	qs to pH

Property	Typical
Appearance	Clear, Viscous Liquid
pH	5.0 – 5.5
Viscosity @ 25C (LV3)	5,000 – 10,000 cP

Formulation #4038 Pump Foamer Cleanser

INCI	Ingredient	%
Water	DI Water	qs to 100.00
Glycerin	Glycerin	3.00
Lauramine Oxide	<i>Cola[®]Lux LO</i>	8.00
Cocamidopropyl Hydroxysultaine <i>and</i> Cocamide MIPA	<i>Cola[®]Liquid SCMPA</i>	8.00
Cocamidopropyl PG-Dimonium Chloride Phosphate	<i>Cola[®]Lipid C</i>	2.00
Sodium Benzoate <i>and</i> Potassium Sorbate	Euxyl [®] K900	0.70
Fragrance	Fragrance	0.20
Benzalkonium Chloride	Stepanquat [™] 50 NF	0.20
Citric Acid	Citric Acid 50%	qs to pH

Property	Typical
Appearance	Clear Liquid
pH	6.0 – 7.0
Viscosity @ 25C (LV3)	< 25 cP

Formulation #3015 Lotion

INCI	Ingredient	%
Water	DI Water	qs to 100.00
Cetyl Hydroxyethylcellulose	Natrosol™ Plus 330CS	0.25
Potassium Hydroxide	KOH, 45%	0.60
Cetyl Phosphate	<i>Cola®Fax CPE</i>	1.00
Glycerin	Glycerin	2.00
Polyglyceryl-3 Oleate	<i>Cola®Mulse 3GO</i>	0.50
Isopropyl Myristate	Isopropyl Myristate	6.00
Caprylic/Capric Triglyceride	Jarchem™ MCT M-5	3.00
Vitis Vinifera Seed Oil	Grapeseed Oil	3.00
Coco-Caprylate	Cetiol® C 5	2.50
Cetyl Alcohol	Lanette® 16	4.00
Phenoxyethanol and Ethylhexylglycerin	Euxyl® PE 9010	0.50
Fragrance	Fragrance	0.10

Property	Typical
Appearance	Opaque
pH	6.0 – 7.0
Viscosity @ 25C (T-E)	150,000 – 200,000 cP

Formulation #3007 Lotion

INCI	Ingredient	%
Water	DI Water	qs to 100.00
Cetyl Hydroxyethylcellulose	Natrosol™ Plus 330CS	0.50
Sorbitan Oleate Decylglucoside Crosspolymer	<i>Poly Suga® Mulse D6</i>	4.00
Glyceryl Laurate	<i>Colonial Monolaurin MB</i>	0.50
Potassium Cetyl Phosphate	<i>Cola® Fax CPE-K</i>	1.00
Glycerin	Glycerin	2.00
Tricaprylin	Dermofeel® MCT	3.00
Undecane and Tridecane	Cetiol® Ultimate	5.00
Argania Spinosa Kernel Oil	Argan Oil	2.00
Coco-Caprylate	Cetiol® C 5	2.50
Cetyl Alcohol	Lanette® 16	4.00
Phenoxyethanol and Ethylhexylglycerin	Euxyl® PE 9010	0.50
Lavandula Angustifolia Oil	Lavender 40/42 Oil	0.05

Property	Typical
Appearance	Opaque
pH	6.0 – 7.0
Viscosity @ 25C (T-E)	40,000 – 60,000 cP

Formulation #3004 Lotion

INCI	Ingredient	%
Water	DI Water	qs to 100.00
Cetyl Hydroxyethylcellulose	Natrosol™ Plus 330CS	0.40
Potassium Hydroxide	KOH, 45%	0.40
Cetyl Phosphate	<i>Cola®Fax CPE</i>	1.00
Stearamidopropyl PG-Dimonium Chloride Phosphate	<i>Cola®Lipid ST</i>	3.00
Hydroxypropyl Bis-Hydroxyethylmonium Chloride	<i>Cola®Moist 200</i>	1.00
Isopropyl Palmitate	Hallstar® IPP NF	5.00
Coco-Caprylate	Cetiol® C 5	1.25
Cocos Nucifera Oil	Coconut Oil	0.60
Myristyl Myristate	Hallstar® MM	3.75
Cetyl Alcohol	Lanette® 16	2.50
Phenoxyethanol and Ethylhexylglycerin	Euxyl® PE 9010	0.50
Fragrance	Fragrance	0.20

Property	Typical
Appearance	Opaque
pH	5.5 – 6.0
Viscosity @ 25C (T-E)	400,000 – 500,000 cP

Questions?

Dennis: dennis@colonialchem.com

Molly: molly@colonialchem.com

