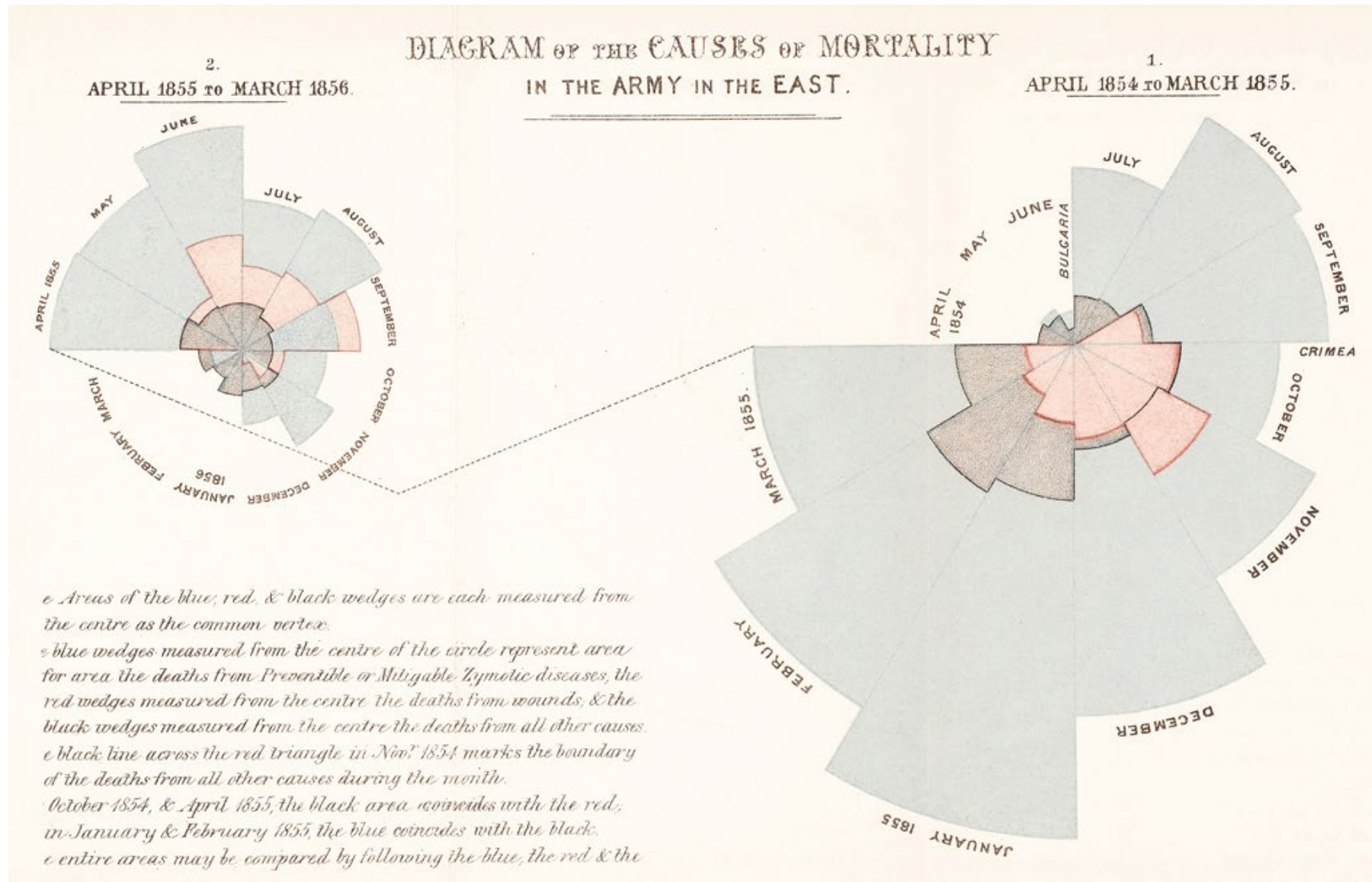


Waterless and Low-Water Formulation

Dennis Abbeduto, Personal Care Business Manager



The Importance of Hygiene (and Data Visualization)



What's in a Business Relationship with Colonial?

- **Innovative Partnership:** Over the last 5 years, Colonial has developed **100 new products**, filed for **6 patents**, and in the past year handled over **600 regulatory requests** from customers
- **Confidence in Quality:** We have **98.8% Delivery Acceptance** over the last three years
- **Getting it Right:** **97.4%** of orders were **delivered on time**, in full in 2020



Colonial Chemical Products

- Meet customer demands for
 - Large variety
 - Consumer-focused product features
 - Quick order fulfillment
- Focus on **green chemistry**
 - Safe, efficient chemical design
 - Bio-renewable raw materials
 - Biodegradable end products
 - Low residuals
- Colonial offers the **mildest** surfactant chemistry found in the marketplace

Waterless Trends and Drivers



Clean and Sustainable Beauty is Here to Stay

- Safe for the consumer
 - Low irritation
 - Low toxicity
 - Functional ingredients
- Safe for the environment
 - Not reliant on petrochemicals
 - Not environmentally destructive at any point in life cycle
 - Not persistent in the environment
- Net good for the world
 - Fair trade
 - Inclusive
 - Support communities

Sustainability matters more in 2020, shows new data

By Deanna Utroske 

29-Jul-2020 - Last updated on 29-Jul-2020 at 20:39 GMT



Water As A Global Resource

- Each year since 1993 UN World Water Day has been celebrated on 22nd March
 - Bringing awareness to value of fresh and clean water
 - Working to achieve Sustainable Development Goal (SDG) 6: water and sanitation for all by 2030
- The world is recognizing water as a valuable resource
 - One in nine global citizens lack access to clean water
- Additional sustainability goals are achieved by reducing water usage
 - Decrease energy use in transporting goods
 - Reduce new plastic production and package use
 - Decrease in need for biocides in CPG products



Consumer Interest is Surging

- Survey by Cosmetics Business (HCPi Media), in partnership with Your Beauty Club
 - 57% of survey respondents had purchased a waterless product
 - 87% of those who hadn't had high purchase interest
 - Powder products most popular for majority of users
 - Those interested are most likely to purchase skin care or hair care
 - Plurality of respondents had environmental concerns in mind
 - 97% would purchase again
 - Most would try additional products
 - Over 90% said they would like to see more innovation
 - 85% agreed that the waterless sector will become more mainstream in beauty

Multinationals Have Ambitious Goals

- Mission to significantly reduce water consumption
 - Unilever has reduced water usage related to manufacturing by more than 40%
 - In 2019 L'Oréal achieved a 60% reduction in water consumption per finished product
 - P&G has multiple “waterless” incubator brands in development or launch
- Mission to significantly reduce package waste
 - Unilever has committed reducing plastic use by 100,000 tonnes by 2025
 - L'Oreal will define problematic or unnecessary plastic this year and eliminate by 2025
 - P&G will reduce virgin plastic 50% in part by creating more concentrated products

Indies are Innovating

- Susteau (formerly OWA) – “Powder to foam” shampoo
- Ethique – Brand dedicated to solid-form hair care (paper packaging)
- LUSH (UK) – “Naked” retail
- Everist – Patent-pending 3x concentrated shampoo paste in aluminum tube
- Loli – “Waste free, water free, trash free”
- Bolt (UK) – Biodegradable anhydrous “drops”, refillable glass storage jar
- Kate McLeod – Lotion “stone”
- Humanrace – Refillable powder cleanser, cream, treatment
- Aloe Attiva (IT) – “4x Boosted” aloe
- Plus – “unit dose” cleansing sheets in dissolvable and compostable packaging
- Lifelong/Forgo (SE) – Refillable bottles with consumer-dilutable powder in paper pouches

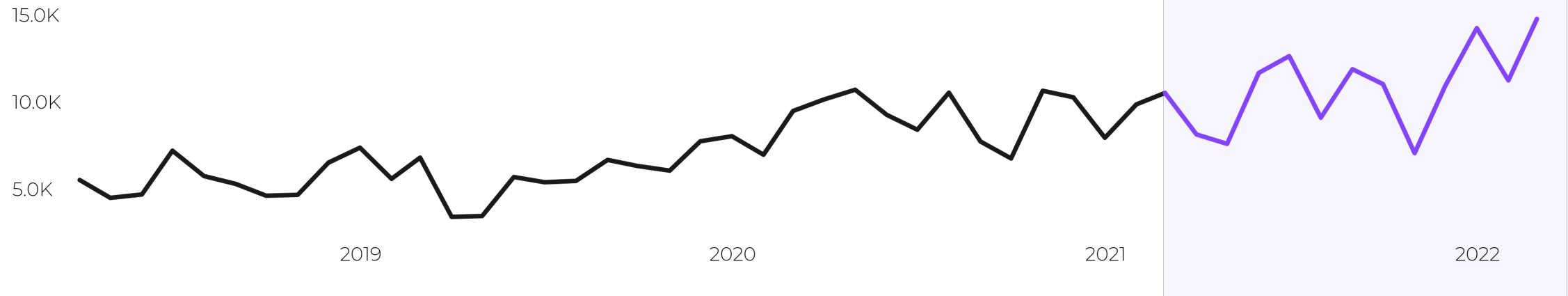
Consumers are Searching

WATERLESS SHAMPOO

SPATE

+87.1% ⓘ

YEAR-OVER-YEAR
GROWTH



Ingredients for Waterless and Low-water Formulations



Suga®Nate 160 Dry

100% Biobased Dry Powder Surfactant

INCI Name	Sodium Laurylglucosides Hydroxypropyl Sulfonate (and) Silica
Global Clearances	TSCA, NDSL, REACH underway
Physical Form	White powder
Key Features	Dry powder surfactant for waterless cleansers RSPO certified natural palm feedstock Low irritation potential in formulation High foam performance Disperses easily in water for optimal performance
Suggested Applications	Syndet bars Powder to foam cleansers Pressed solid cleansers Anhydrous “pod” cleansers
Certifications	ISO 16128 (1.0)

Cola[®]Mate LA-100 MB

Dry Powder Surfactant	
INCI Name	Disodium Lauryl Sulfosuccinate
Global Clearances	Globally approved
Physical Form	White powder
Key Features	Dry powder surfactant for waterless cleansers RSPO certified natural palm feedstock Low irritation potential in formulation High foam performance Disperses easily in water for optimal performance
Suggested Applications	Syndet bars Powder to foam cleansers Pressed solid cleansers Anhydrous “pod” cleansers
Certifications	RSPO Mass Balance ISO 16128 (0.76)

Cola®Det EQ-154

Dry Powder Blend	
INCI Name	Disodium Lauryl Sulfosuccinate, Sodium C14-16 Olefin Sulfonate, Lauramidopropyl Betaine
Global Clearances	Globally approved
Physical Form	White powder
Key Features	<p>Dry powder surfactant for syndets and other dry products</p> <p>Low irritation and high foam for balanced performance</p> <p>Rich, stable foam</p> <p>Disperses easily in water for optimal performance</p> <p>Disperses in glycols for “pod” or liquid concentrate products</p>
Suggested Applications	<p>Syndet bars</p> <p>Powder to foam cleansers</p> <p>Pressed solid cleansers</p> <p>Anhydrous “pod” cleansers</p>
Certifications	ISO 16128 (0.51)

Colonial SCS Needles

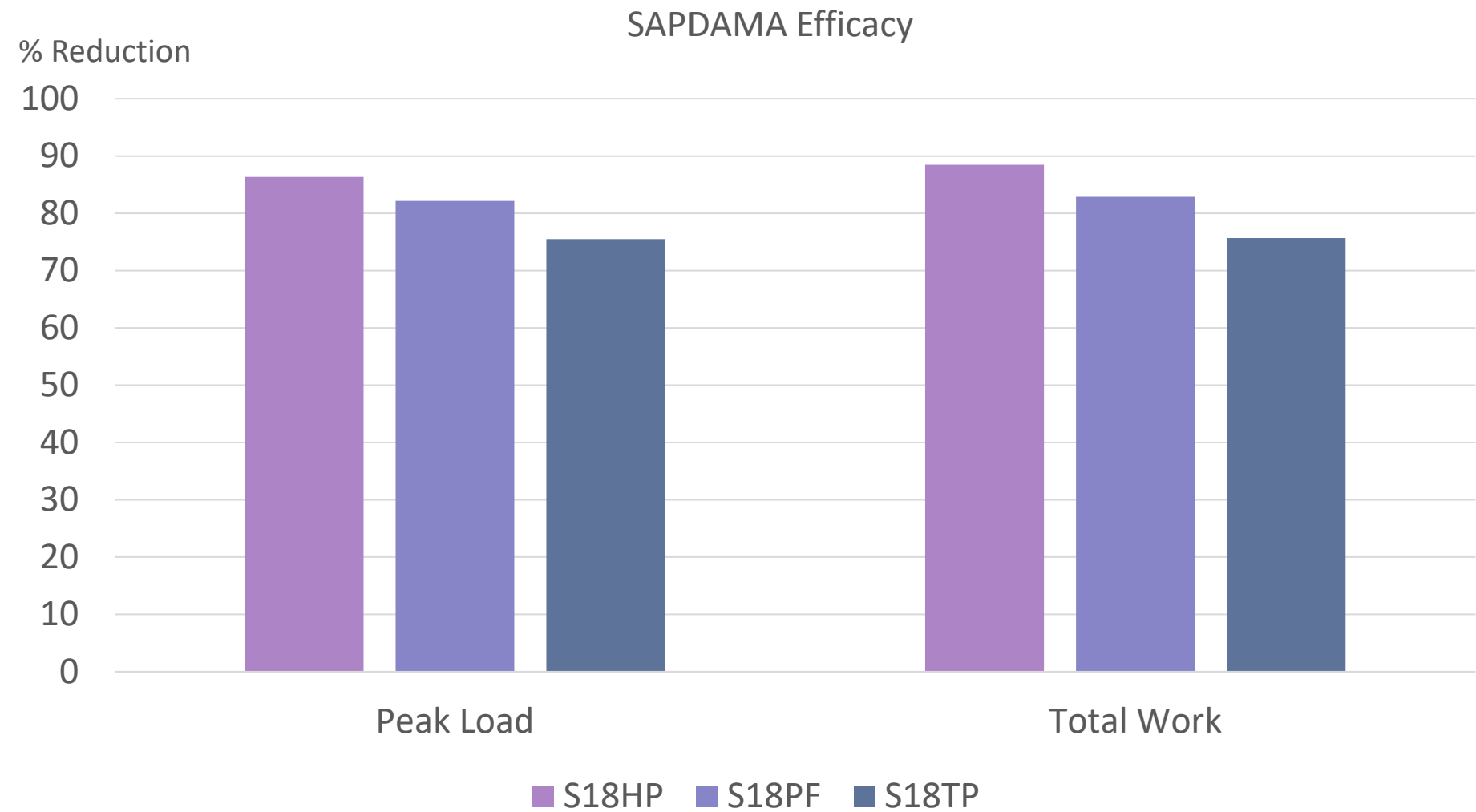
High Foam Dry Surfactant	
INCI Name	Sodium Coco-Sulfate
Global Clearances	Globally approved
Physical Form	White needle
Key Features	High foam surfactant 100% Biobased Lower irritation than pure Sodium Lauryl Sulfate Readily biodegradable
Suggested Applications	Syndet bars Pressed solid shampoos Foaming bath salts
Certifications	ISO 16128 (1.0) COSMOS Approved

Colonial S18PF

Biodegradeable Palm-Free Conditioning Active

INCI Name	Stearamidopropyl Dimethylamine
Global Clearances	Globally approved (REACH underway)
Physical Form	Yellow waxy flake
Key Features	<p>Primary ingredient for all types of opaque conditioners</p> <p>Creates “Quat-free” amine salts when neutralized with organic acids</p> <ul style="list-style-type: none"> • α-Hydroxy acids/β-Hydroxy acids • Amino acids • Fatty acids <p>Biodegradable</p> <p>Does not build up on hair or scalp</p> <p>Excellent wet and dry comb force reductions</p>
Suggested Applications	<p>Conditioning Bars</p> <p>Syndet Bars</p> <p>Shampoo Bars</p>
Certifications	ISO 16128 (0.80)

Colonial S18XX Combing



Cola®Carb TDC

Ether Carboxylate	
INCI Name	Trideceth-7 Carboxylic Acid
Global Clearances	Globally approved
Physical Form	Clear Liquid
Key Features	Anhydrous liquid surfactant Moderate foam Oil soluble (with MCT oil) Low irritation potential (when neutralized) Neutralized in formulation with mineral or organic base Undetectable dioxane (<1 ppm)
Suggested Applications	Oil to foam cleansers Oil to milk cleansers Dilutable liquid concentrates

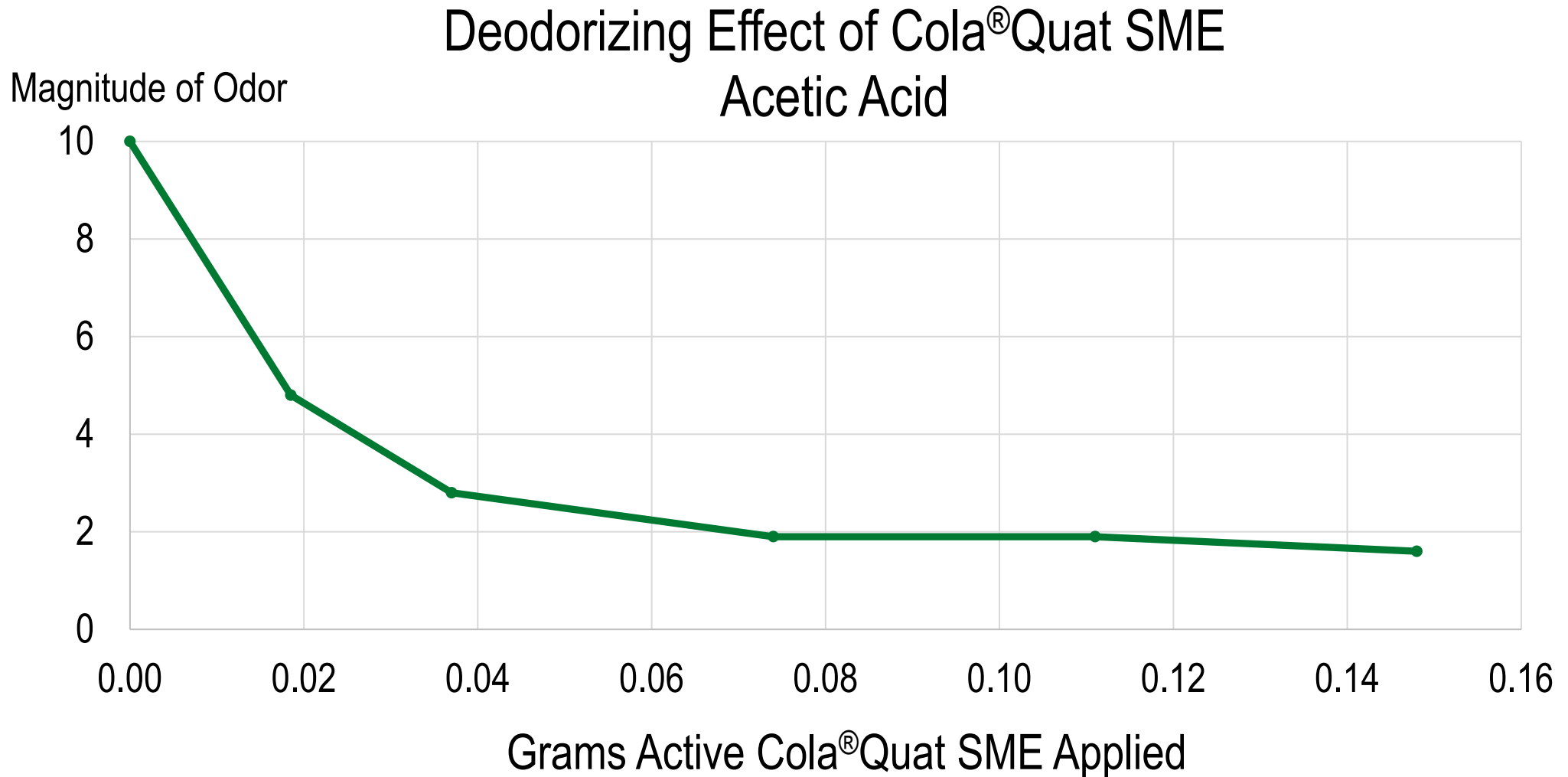
Cola[®]Quat SME

Soy-Derived Deodorizing Active	
INCI Name	Soyethyl Morpholinium Ethosulfate
Global Clearances	Globally approved
Physical Form	Amber Liquid
Key Features	Effective deodorizer for a wide variety of applications Complexes odors , lowering their vapor pressure Easy to use liquid form Freely soluble in water and other polar solvents Low irritation (slight irritation potential at typical use level)
Suggested Applications	Braid “milk” “Next day hair” applications Dry shampoos Deodorant products Typical use level: 1-2%
Certifications	ISO 16128 0.63

Sensory testing

- Fixed amounts of odorants were applied to cotton cloths and the cloths were sealed in Ziploc® bags to absorb odors:
 - 0.06 g acetic acid
- After 24 hours, cloths were treated with varying amounts of Cola®Quat SME by evenly spraying the cloths with the appropriate amount of a deodorizing spray formulation.
 - One cloth from each source of odor was left untreated.
- 10 panelists were asked to smell the cloths and rate the degree of odor on a scale of 0 to 10.
- In each case, the panelists were first asked to smell the cloth that had not been treated with Cola®Quat SME and consider it to represent a 10 on the odor scale for strong odor.
- They were then asked to smell the cloths treated with Cola®Quat SME and rate them using the odor scale

Cola[®]Quat SME Performance



Cola[®]Teric HBS

Amphoeric Surfactant from Hemp Seed Oil	
INCI Name	Cannabisamidopropyl Hydroxysultaine
Global Clearances	Globally approved
Physical Form	Clear Liquid
Key Features	Provides emolliency to cleansers Free of cannabinoids Biodegradable Low irritation potential No added preservatives Acceptable for all “ clean beauty ” guidelines
Suggested Applications	Syndet additive Soap additive Liquid concentrates
Certifications	ISO 16128 (0.85)

Cola[®]Moist 200

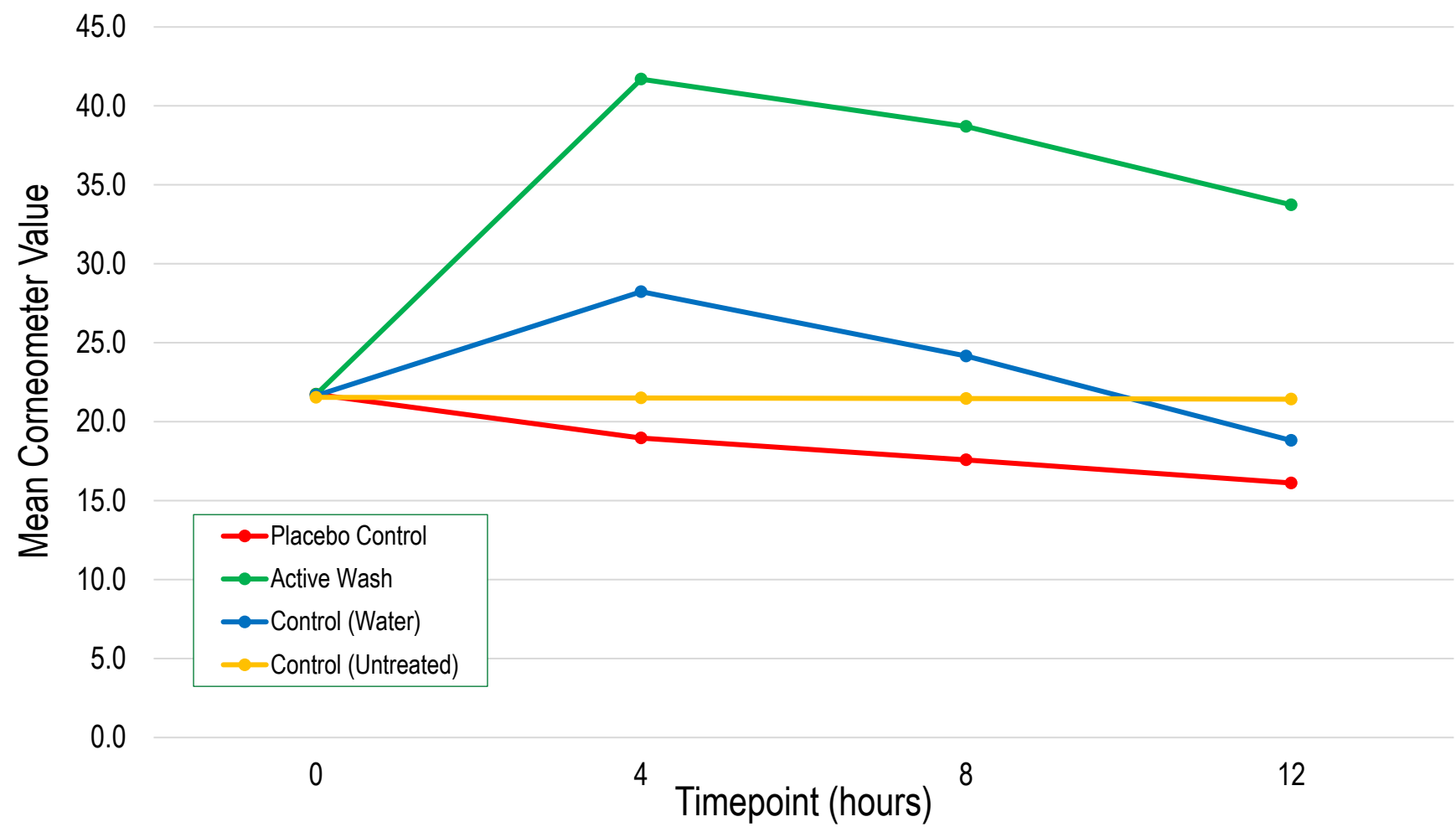
Powerful, Highly Substantive Humectant

INCI Name	Hydroxypropyl Bis-Hydroxyethyltrimonium Chloride
Global Clearances	TSCA, NDSL, REACH
Physical Form	Clear Liquid
Key Features	Substantive humectant moisturizer Non-occlusive , non-tacky Broad pH, temperature stability Low irritation potential Non-sensitizer Works in rinse-off applications High activity
Suggested Applications	Syndet bars Soap bars Oil cleansers

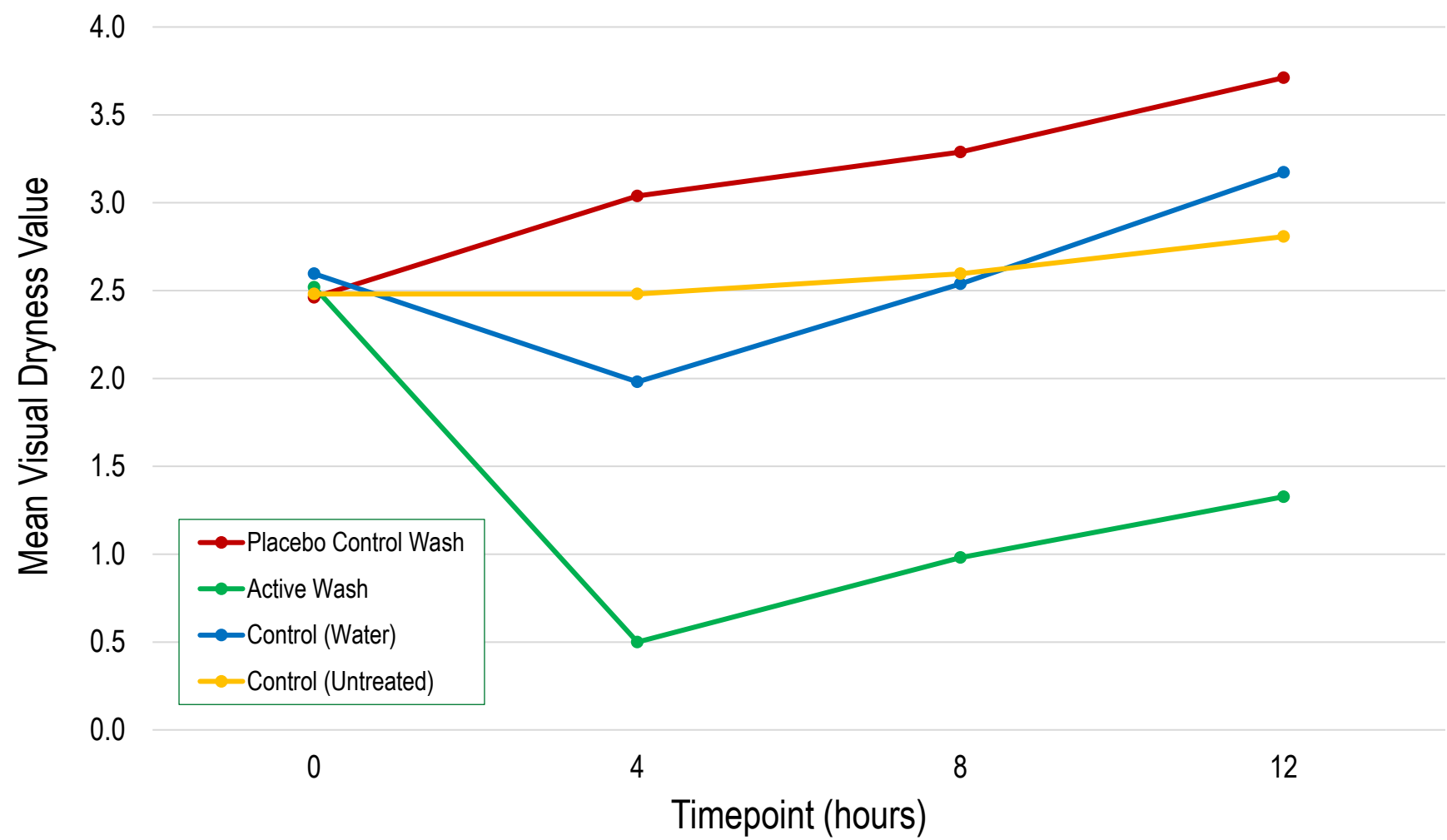
Skin Moisturization Study – Rinse Off

- Background
 - A sulfate-free body wash was compared to the same body wash containing 3% ColaMoist 200 (as supplied)
- Study Design
 - 26 healthy, dry skin volunteers (Dryness Score 1.5 – 3.0)
 - Double blind, placebo controlled
 - LCAT (Lower Leg Controlled Application Test) Design
 - 4 test sites: Placebo control wash, active wash, water control, untreated control (an area untouched during the study)
 - Skin moisturization was measured with visual grading and Corneometer® at baseline and 4, 8, 12 hours after application
- Results
 - The sulfate-free body wash with ColaMoist 200 significantly improved moisturization over all other conditions throughout the 12 hour study

Skin Moisturization Study – Rinse Off (Corneometer)



Skin Moisturization Study – Rinse Off (Visual)



Cola[®]Lipid GS

Multifunctional Phospholipid Analog from Grapeseed Oil

INCI Name	Sodium Grapeseedamidopropyl PG-Dimonium Chloride Phosphate
Global Clearances	Globally approved
Physical Form	Clear Liquid
Key Features	Multifunctional surfactant <ul style="list-style-type: none"> • Emulsifier • Refatting agent • Mild antioxidant Low irritation potential Readily biodegradable
Suggested Applications	Syndet bars Conditioning bars Lotion bars Liquid concentrates
Certifications	None (USDA Certified Biobased pending)

Cola[®]Mulse 3GO

100% Biobased, PEG-free Low HLB Emulsifier

INCI Name	Polyglyceryl-3 Oleate
Global Clearances	Globally approved
Physical Form	Clear Liquid
Key Features	PEG-free emulsifier Easy to handle oil-soluble liquid Refatting agent for cleansers Viscosity, foam enhancer for cleansers
Suggested Applications	Facial cleansers Oil-to-Milk or Oil-to-Foam cleansers Shampoo bars
Certifications	NATRUE Annex 3 USDA Certified 100% Biobased ISO 16128 (1.0)

Colonial Monolaurin MB

Multifunctional Emulsifier and Emollient

INCI Name	Glyceryl Laurate
Global Clearances	Globally approved
Physical Form	White pastille
Key Features	Multifunctional surfactant <ul style="list-style-type: none"> • Emulsifier • Emollient • Preservative booster Low irritation potential Readily biodegradable
Suggested Applications	Facial cleansers Deodorants
Certifications	ISO 16128 (1.0) COSMOS Approved RSPO Mass Balance USDA Certified Biobased 100%

Waterless and Low-Water Formulations



Handmade-Style Shampoo Bar

1042

INCI Name	Trade Name	%	Function
Sodium Coco-Sulfate	Colonial SCS	65.00	Anionic cleanser in needle form
Zea Mays (Corn) Starch	Farmal™ CS 3757 ³	22.50	Filler, anti-caking agent
Water	Water	6.90	Processing
Sodium Grapeseedamidopropyl PG-Dimonium Chloride Phosphate	Cola®Lipid GS	2.00	Binding, Conditioning
Butyrospermum Parkii (Shea) Butter	Biochemica® Shea Butter Refined ₁	2.00	Luxury additive
Fragrance	Fragrance ²	1.50	Fragrance
Tocopheryl Acetate	Vitamin E Acetate	0.10	Antioxidant
Dye	Dye	qs	Color

¹Hallstar, ²Orchidia Fragrances, ³Ingredion

TYPICAL PROPERTIES

Appearance:

Solid bar with visible SCS needles

Hand-Pressed Shampoo Bar

1056

INCI Name	Trade Name	%	Function
Sodium Coco-Sulfate	Colonial SCS	62.50	Primary anionic cleanser in needle form
Disodium Lauryl Sulfosuccinate	Cola®Mate LA-100	15.00	Secondary anionic cleanser in powder form
Zea Mays (Corn) Starch	Farmal™ CS 3757 ¹	10.00	Filler, anti-caking agent
Water	Water	9.50	Processing
Sodium Grapeseedamidopropyl PG-Dimonium Chloride Phosphate	Cola®Lipid GS	2.00	Binding, conditioning
Fragrance	Fragrance ²	1.00	Fragrance
Dye	Dye	qs	Color

¹Ingredion, ²Orchidia Fragrances

TYPICAL PROPERTIES

Appearance: Bar with visible SCS needles

Moisturizing Shampoo Bar

1050

INCI Name	Trade Name	%	Function
Glycerin	Glycerin	39.30	Humectant
Sodium Coco-Sulfate	Colonial SCS	33.00	Anionic cleanser in needle form
Cetearyl Alcohol	Lanette O ¹	13.00	Bar solidifier
Water	Water	8.00	Processing
Sodium Grapeseedamidopropyl PG-Dimonium Chloride Phosphate	Cola®Lipid GS	4.00	Conditioning
Hydroxypropyl Bis-Hydroxyethyldimonium Chloride	Cola®Moist 200	2.00	Cationic Humectant
Citric Acid	Citric Acid 50%	0.40	pH adjuster
Fragrance	Fragrance ²	0.30	Fragrance
Dye	Dye	qs	Color

¹BASF, ²Orchidia Fragrances

TYPICAL PROPERTIES

Appearance:
pH (10%)

Solid, opaque bar
5.5 – 6.0

Sulfate-Free Shampoo Bar (Hot Pour)

1051

INCI Name	Trade Name	%	Function
Cocos Nucifera (Coconut) oil	Coconut Oil	34.50	Hair nourishing
Disodium Lauryl Sulfosuccinate, Sodium C14-16 Olefin Sulfonate, Lauramidopropyl Betaine	Cola[®]Det EQ-154	30.00	Foam, cleansing
Cetearyl Alcohol	Lanette [®] O ¹	33.00	Bar solidifier
Polyglyceryl-3 Oleate	Cola[®]Mulse 3GO	2.00	Refatting agent
Fragrance	Fragrance ²	0.50	Fragrance
Dye	Dye	qs	Color

¹BASF, ²Orchidia Fragrances

TYPICAL PROPERTIES

Appearance:
pH (10%)

Solid, opaque bar
6.0 – 6.5

Palm-Free Conditioner Bar

1053

<i>INCI Name</i>	<i>Trade Name</i>	<i>%</i>	<i>Function</i>
Brassica Alcohol	SustOleo™ BA ¹	36.00	Bar solidifier
Theobroma Cacao (Cocoa) Seed Butter	Biochemica® Cocoa Butter Deodorized ²	22.70	Payout modifier, nourishing
Vitis Vinifera (Grape) Seed Oil	Grapeseed Oil	20.00	Payout modifier, nourishing
Stearamidopropyl Dimethylamine	Colonial S18PF	16.00	Conditioning
Lactic Acid	PURAC® FCC 88 ³	4.80	Neutralizing agent
Fragrance	Fragrance	0.50	Fragrance
Dye	Dye	qs	Color

¹Inolex, ²Hallstar, ³Corbion

TYPICAL PROPERTIES

Appearance: Solid, opaque bar
 pH (10%): 4.0 – 5.0

Detox & Soothe Powder Shampoo

1052

INCI Name	Trade Name	%	Function
Sodium Laurylglucosides Hydroxypropylsulfonate	Suga[®]Nate 160 Dry	25.00	Ultra-mild primary anionic cleanser
Disodium Lauryl Sulfosuccinate	Cola[®]Mate LA-100	25.00	Foam-boosting anionic cleanser
Maltodextrin	Maltrin QD [®] M500 ¹	26.00	Filler
Kaolin	Kaolin Clay USP ²	10.00	Filler
Aloe Barbadensis (Aloe Vera) Leaf	Biochemica [®] BioVera 200X Aloe ₃	0.50	Soothing additive
Vitis Vinifera (Grape) Seed Oil	Grape Seed Oil ⁴	13.00	Fine powder control
Fragrance	Fragrance ⁵	0.50	Fragrance

¹Grain Processing Corporation, ²Charkit, ³Hallstar, ⁴Jedwards International, ⁵Orchidia Fragrances

TYPICAL PROPERTIES

Appearance: **White, Loose Powder**
 pH (5% Aqueous): **6.5 – 7.5**

Charcoal Scalp Restoring Scrub

4043

<i>INCI Name</i>	<i>Trade Name</i>	<i>%</i>	<i>Function</i>
Sucrose	Sugar	41.75	Exfoliant
Sea Salt <i>and</i> Activated Charcoal	Black Hawaiian Sea Salt ³	22.00	Exfoliant
Cocos Nucifera (Coconut) Oil	Coconut Oil	22.00	Nourishing, soothing
Cannabis Sativa Seed Oil	Hemp Seed Oil ¹	4.00	Nourishing, soothing
Disodium Lauryl Sulfosuccinate	Cola[®]Mate LA-100 MB	8.00	Foam, clean rinse-off
Glyceryl Laurate	Colonial Monolaurin	2.00	Product uniformity, antimicrobial
Melaleuca Alternafolia (Tea Tree) Leaf Oil	Tea Tree Oil ²	0.25	Fragrance

¹Jedwards, ²Orchidia Fragrances, ³SaltWorks

TYPICAL PROPERTIES

Appearance: **Gray to black, granular**

Eco Conditioner Bar

1048

INCI Name	Trade Name	%	Function
Cetearyl Alcohol and Stearalkonium Chloride and Propylene Glycol and Lactic Acid	Cola® Quat CBC	67.00	Conditioning, bar solidifier
Theobroma Cacao (Cocoa) Seed Butter	Biochemica® Cocoa Butter – Ultra Refined ¹	17.00	Payout modifier, nourishing
Vitis Vinifera (Grape) Seed Oil	Grapeseed Oil	7.50	Payout modifier, nourishing
Argania Spinosa Kernel (Argan) Oil	Argan Oil	7.50	Payout modifier, nourishing
Fragrance	Fragrance ²	1.00	Fragrance
Dye	Dye	qs	Color

¹Hallstar, ²Orchidia Fragrances

TYPICAL PROPERTIES

Appearance:
pH (10%):

Solid, opaque bar
4.0 – 5.0

Himalayan Body Bar

2053

INCI Name	Trade Name	%	Function
Sodium Coco-Sulfate	Colonial SCS	65.00	Anionic cleanser in needle form
Agar	Fusion Agar CG401 ⁴	17.50	Filler
Water	Water	9.90	Processing
Hydroxypropyl Bis-Hydroxyethylmonium Chloride	Cola [®] Moist 200	2.00	Humectant
Sodium Chloride	Himalayan Pink Salt (fine grain) ¹	2.00	Luxury additive
Butyrospermum Parkii (Shea) Butter	Biochemica [®] Shea Butter Refined ²	2.00	Luxury additive
Fragrance	Fragrance ³	1.50	Fragrance
Tocopheryl Acetate	Vitamin E Acetate	0.10	Antioxidant
Dye	Dye	qs	Color

¹SaltWorks, ²Hallstar, ³Orchidia Fragrances, ⁴ISC Gums

TYPICAL PROPERTIES

Appearance:

Solid bar with visible SCS needles

Exfoliating Sugar Scrub

2017

<i>INCI Name</i>	<i>Trade Name</i>	<i>%</i>	<i>Function</i>
Sucrose	Sugar	67.50	Exfoliant
Propanediol	Zemea® ¹	26.00	Carrier, humectant
Disodium Lauryl Sulfosuccinate, Sodium C14-16 Olefin Sulfonate, Lauramidopropyl Betaine	Cola®Det EQ-154	4.00	Foam, clean rinse-off
Glyceryl Laurate	Colonial Monolaurin MB	2.00	Product uniformity, antimicrobial
Fragrance	Fragrance	0.50	Fragrance

¹Dupont Tate & Lyle

TYPICAL PROPERTIES

Appearance: White, granular

Exfoliating Himalayan Pink Salt Scrub

2052

<i>INCI Name</i>	<i>Trade Name</i>	<i>%</i>	<i>Function</i>
Sodium Chloride	Himalayan Pink Salt (fine grain) ²	67.50	Exfoliant
Propanediol	Zemea [®] ¹	26.00	Carrier, humectant
Disodium Lauryl Sulfosuccinate, Sodium C14-16 Olefin Sulfonate, Lauramidopropyl Betaine	Cola[®]Det EQ-154	4.00	Foam, clean rinse-off
Glyceryl Laurate	Colonial Monolaurin MB	2.00	Product uniformity, antimicrobial
Fragrance	Fragrance	0.50	Fragrance

¹Dupont Tate & Lyle, ²SaltWorks

TYPICAL PROPERTIES

Appearance: **Pink, granular**

Luxurious Full Body Detox Scrub

4047

INCI Name	Trade Name	%	Function
Sucrose	Sugar	41.75	Exfoliant
Sea Salt and Activated Charcoal	Black Hawaiian Sea Salt ³	22.00	Exfoliant
Cocos Nucifera (Coconut) Oil	Coconut Oil	22.00	Nourishing, soothing
Cannabis Sativa Seed Oil	Hemp Seed Oil ¹	4.00	Nourishing, soothing
Disodium Lauryl Sulfosuccinate	Cola[®]Mate LA-100 MB	8.00	Foam, clean rinse-off
Glyceryl Laurate	Colonial Monolaurin	2.00	Product uniformity, antimicrobial
Melaleuca Alternafolia (Tea Tree) Leaf Oil	Tea Tree Oil ²	0.25	Fragrance

¹Jedwards, ²Orchidia Fragrances, ³SaltWorks

TYPICAL PROPERTIES

Appearance: **Gray to black, granular**

Foaming Oil Cleanser with Hemp Seed Oil

2057

INCI Name	Trade Name	%	Function
Vitis Vinifera (Grape) Seed Oil	Grapeseed Oil	33.05	Skin nourishing oil
Cannabis Sativa Seed Oil	Hemp Seed Oil	33.05	Skin nourishing oil
Caprylic/Capric Triglyceride	Jarchem™ MCT M-5 ¹	20.00	Plant-based emollient
Trideceth-7 Carboxylic Acid	Cola®Carb TDC	10.00	Foam, oil-to milk transformation
Hydroxypropyl Bis-Hydroxyethylmonium Chloride	Cola®Moist 200	3.00	Cationic Humectant
Monoisopropanolamine	MIPA	0.60	Neutralizing agent
Salvia Sclarea Oil	Clary Sage Oil ²	0.30	Fragrance

¹Jarchem Innovative Ingredients, ²Orchidia Fragrances

TYPICAL PROPERTIES

Appearance: **Clear Liquid**
 pH (10%): **6.5 – 7.5**
 Viscosity: **< 100 cP**

Oil-to-Milk Cleanser

2064

INCI Name	Trade Name	%	Function
Vitis Vinifera (Grape) Seed Oil	Grape Seed Oil ¹	67.30	Skin nourishing oil
Caprylic/Capric Triglyceride	Jarchem™ MCT M-5 ²	25.00	Plant-based emollient
Coco-Caprylate	Cetiol® C 5 ³	5.00	Plant-based emollient, silicone alternative
Polyglyceryl-3 Oleate	Cola® Mulse 3GO	2.50	Oil-to-milk transformation, refatting agent
Cymbopogon Citratus (Lemongrass) Oil	Lemongrass Oil ⁴	0.20	Fragrance

¹Jedwards International, ²Jarchem Innovative Ingredients, ³BASF, ⁴Orchidia Fragrances

TYPICAL PROPERTIES

Appearance: **Clear Liquid**
 pH (10%): **6.5 – 7.5**
 Viscosity: **< 100 cP**

Foaming Oil Cleanser (PEG-Free, Sulfate-Free)

2075

INCI Name	Trade Name	%	Function
Caprylic/Capric Triglyceride	Jarchem™ MCT M-5 ¹	63.80	Plant-based emollient
Sodium Lauroyl Lactylate	Esterlac™ SLL ⁴	11.00	Foam, clean rinse-off
Vitis Vinifera (Grape) Seed Oil	Grape Seed Oil ³	10.00	Skin nourishing oil
Coco-Caprylate	Cetiol® C 5 ²	5.00	Plant-based emollient, silicone alternative
Polyglyceryl-3 Oleate	Cola®Mulse 3GO	5.00	Skin conditioning, oil-to-milk transformation
Pentylene Glycol	MinaCare® Pentiol Green+ ⁵	5.00	Stability (clarity, viscosity)
Lavandula Angustifolia (Lavender) Oil	Lavender 40/42 Oil ⁶	0.16	Fragrance
Cymbopogon Citratus (Lemongrass) Oil	Lemongrass Oil ⁶	0.04	Fragrance

¹Jarchem Innovative Ingredients, ²BASF, ³Jedwards International, ⁴Corbion, ⁵Minasolve, ⁶Orchidia Fragrances

TYPICAL PROPERTIES

Appearance: **Clear Liquid**
 pH (10%): **6.5 – 7.5**
 Viscosity: **< 100 cP**

Foaming Powder-to-Clay Mask



2076

INCI Name	Trade Name	%	Function
Sodium Laurylglucosides Hydroxypropylsulfonate	Suga[®]Nate 160 Dry	10.00	Ultra-mild primary anionic cleanser
Disodium Lauryl Sulfosuccinate	Cola[®]Mate LA-100	15.00	Foam boosting anionic cleanser
Kaolin	Kaolin Clay USP ¹	74.50	Clay
Fragrance	Natural Green Tea Fragrance ²	0.50	Fragrance

¹Charkit, ²Orchidia Fragrances

TYPICAL PROPERTIES

Appearance: White, loose powder
 pH (5%): 5.5 – 6.5

Bubble Bath Bomb

4035

<i>INCI Name</i>	<i>Trade Name</i>	<i>%</i>	<i>Function</i>
Sodium Bicarbonate	Sodium Bicarbonate	53.00	Fizz
Citric Acid	Citric Acid	26.50	Fizz
Sodium Laurylglucosides Hydroxypropylsulfonate	Suga[®]Nate 160 Dry	15.00	Foam, oil/dye dispersion
Vitis Vinifera (Grape) Seed Oil	Grape Seed Oil ¹	4.50	Processing
Fragrance	Fragrance ²	1.00	Fragrance
Dye	Dye	qs	Color

¹Jedwards International, ²Orchidia Fragrances

TYPICAL PROPERTIES

Appearance: Pressed Powder Bar

Bubble Bath Bar

4044

INCI Name	Trade Name	%	Function
Sodium Bicarbonate	Sodium Bicarbonate	51.00	Fizz
Citric Acid	Citric Acid	26.00	Fizz
Disodium Lauryl Sulfosuccinate	Cola[®]Mate LA-100	8.00	Foam, oil/dye dispersion
Magnesium Sulfate	Epsom Salt ¹	5.00	Luxury additive
Sodium Chloride	Himalayan Pink Salt (fine grain) ¹	5.00	Luxury additive
Vitis Vinifera (Grape) Seed Oil	Grape Seed Oil ²	4.00	Processing
Fragrance	Fragrance ³	1.00	Fragrance
Dye	Dye	qs	Color

¹SaltWorks, ²Jedwards International, ³Orchidia Fragrances

TYPICAL PROPERTIES

Appearance:
pH (10%):

Pressed Powder Bar
6.0 – 7.0

Thank you!

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Product TDS/SDS/Formulations: <https://www.colonialchem.com>

Formula Girls Podcast: <https://apple.co/3dUq5fh>

