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DISCOVER A **BETTER WAY**™

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TOILETRIES KIT

ALL SYSTEMS GO



DISCOVER A **BETTER WAY**™

In today's fast and furious world, time is our most precious commodity. But, when you're constantly on the go, you don't need to let your daily personal care routine take a back seat.

All Systems Go is a first-class toiletries kit specifically developed to help you keep pace with your active lifestyle with personal care products that perform the way you need – especially when you, and your schedule, are under pressure.

DISCOVER A **BETTER WAY™** for your toiletries, cleansing and personal care formulations with ANGUS.

It takes the right combination of high-performance ingredients to create the high-performance results consumers want from their personal and body care products. For decades, formulators have turned to the proven effectiveness of ANGUS' high-purity ULTRA PC™ amino alcohols across a wide range of cleansing, sanitizing and shaving products.

From high-efficiency neutralization and improved emulsion stabilization to enhanced foam development, discover the multifunctional performance of AMP-ULTRA™ PC 2000 (INCI: Aminomethyl Propanol) and TRIS AMINO™ ULTRA PC (INCI: Tromethamine) amino alcohols in your personal care formulations.

- Mild products
- Improved cleansing properties due to lower critical micelle concentration (CMC)
- Boosts foam development and creaminess
- Enhanced formulation stability with a high-alcohol tolerance
- Ideal for formulating crystal-clear gels, liquids and solids
- Helps eliminate common body off-odors
- More favorable health and environmental profile compared to TEA, KOH and NaOH

Proven in hand sanitizers, AMP-ULTRA™ PC 2000 has cemented its place as the neutralizer of choice for crystal clear carbomer gels with high alcohol content. After heating at 50°C for 1 week, the clarity observed in the hand sanitizer using AMP-ULTRA™ PC 2000 is unmatched among other commonly used pH adjusters.

AMP-ULTRA™ PC 2000

TEA

KOH

NaOH

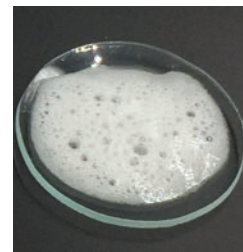


Products heated for 1 week at 50°C.

The clarity experienced in hand sanitizers is also observed in foaming cleansers using fatty acid surfactants. TRIS AMINO™ ULTRA PC is the preferred neutralizer for this application. The beneficial electrostatic interactions with the fatty acid creates a more efficient cleansing system that creates a richer foam upon application. The synergies between the protonated primary amino alcohol (aminium ion) and the anionic carboxylate group allows for lower CMC levels to be achieved, which greatly increases the cleansing efficiency of the products.

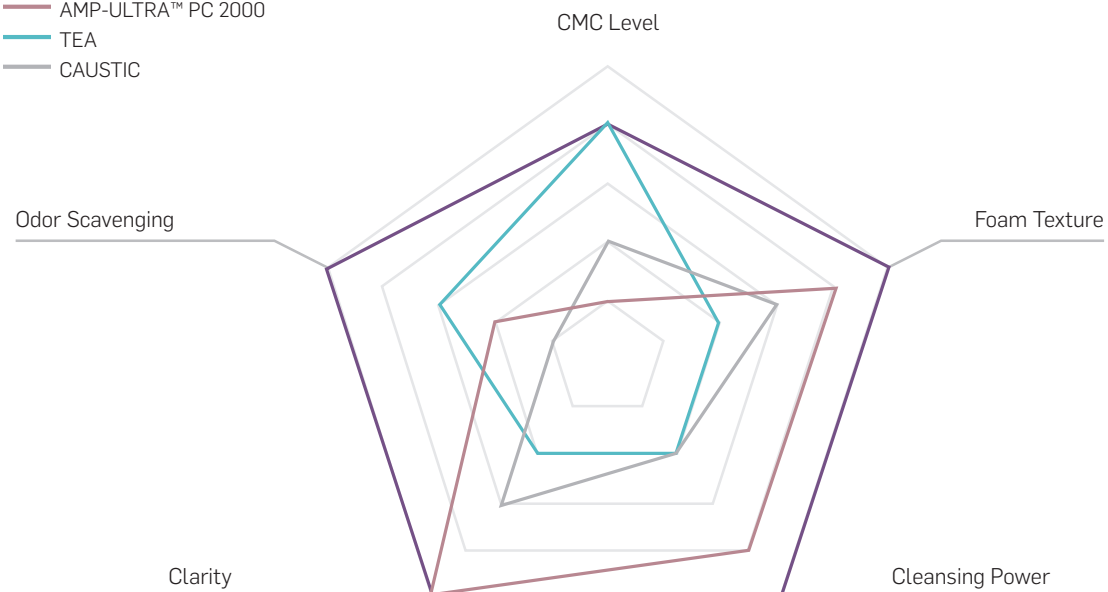
TRIS AMINO™ ULTRA PC

TEA

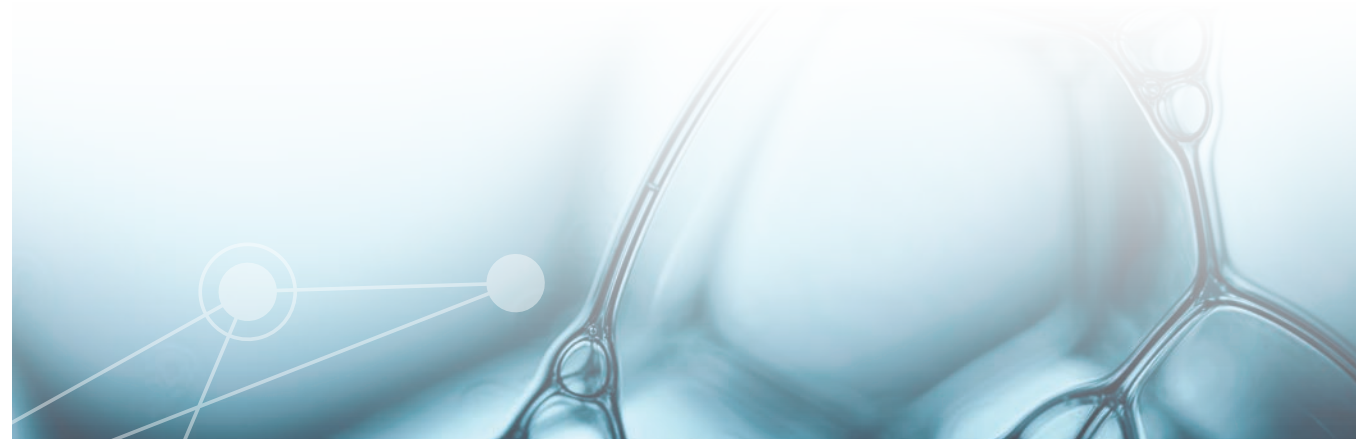


Toiletries Properties

- TRIS AMINO™ ULTRA PC
- AMP-ULTRA™ PC 2000
- TEA
- CAUSTIC



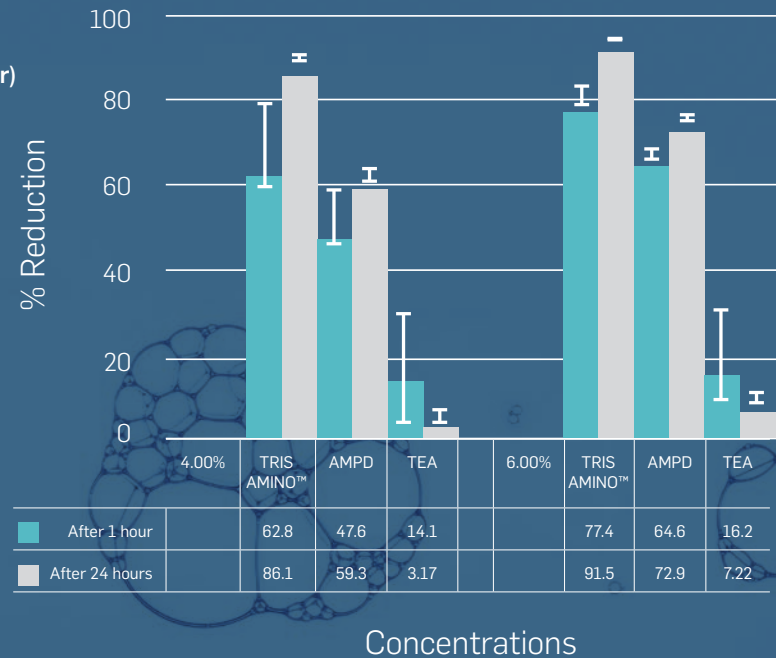
Surfactant solution (laurate salts)	CMC at 25°C (mM)	Surface tension of 20 mM surfactant solutions (mN/m)
K laurate	12.77	28.0 ± 0.0
AMP laurate	14.88	25.3 ± 0.0
AMPD laurate	11.09	23.1 ± 0.0
TRIS laurate	2.67	22.4 ± 0.0
TEA laurate	3.77	25.4 ± 0.0



In addition to cleansing and foaming efficiency, a good body cleanser will also deodorize to leave the skin refreshed. The benefits of the primary amino alcohol TRIS AMINO™ ULTRA PC extend to quench common malodors produced from the body. By neutralizing odorous acidic compounds and quenching volatile, natural aldehydes, cleansers incorporating TRIS AMINO™ ULTRA PC will help keep the body clean and fresh.

DISCOVER A **BETTER WAY™**

% Reduction of the peak area of 10ppm of 2-nonenal (smell associated with body odor)



SmoothMOVES

Shaving Foam

Creamy foam that moisturizes and softens skin to enhance razor glide for a quick, comfortable and smooth shave.

Formulated with **TRIS AMINO™ ULTRA PC** for efficient neutralization of fatty acids providing a rich, pristine-white foam.

PROCEDURE:

1. Heat the ingredient from phase A to 75°C.
2. Premix phase B and add into phase A under stirring.
3. Add phase C into phase A+B under stirring.
Keep the mixture heated to 75°C.
4. Premix and heat phase D to 75°C. Add into the phase A+B+C under stirring until homogeneous.
5. Remove from heating and keep stirring until approx. 40°C. Add phase E.
6. Pack with the propellant.

COMMENTS:

Viscosity: 5400 cP (Brookfield RV, 20 rpm)

Appearance: White emulsion

pH = 8.0 - 8.5

Batch: SPCAC18-06

Phase	Trade Name	INCI	Supplier	Wt%
A	1	Stearic Acid	Labsynth	9
	2	Water	-	8.95
B	3	TRIS AMINO™ ULTRA PC	ANGUS	3
	4	Alcool Cetoestearilico 20EO	Quimica Anastacio	1.5
C	5	Propylene Glycol	Univar	3
	6	EcoSense™ 919	Dow	2
D	7	Water	-	68
	8	Versene® Na2 Crystal	Dow	0.05
	9	Polyox™ WSR N60K	Dow	0.1
	10	CELLOSIZÉ™ QP 100 MH	Dow	0.1
E	11	Salidant DMH	Quimica Anastacio	0.3
F	12	Butanol/Propanol	Aercamp	4

CleanSTREAK

Hand Sanitizer

Water-clear sanitizing hand gel (70%+ alcohol) that effectively cleans and freshens hands, even when there's no soap or water nearby.

Formulated with **AMP-ULTRA™ PC 2000** (5% water) for outstanding neutralization, solubilization and stability, even with high levels of alcohol, keeping the formulation crystal-clear for its entire life cycle.

PROCEDURE: (cold process with propeller - heidolph device)

- Mix phase A with a propeller 2 min. at 200 rpm.
- Sprinkle Carbopol® Ultrez 21 in the surface of phase A.
Wait until the polymer has completely "wet out."
Begin gentle agitation (200 rpm) for 5 min.
- Add phase C ingredients in order one-by-one and mix until a clear and thick gel is obtained.

3. Add phase D and mix until uniform.

4. Verify that the pH is around 7-7.5 .

COMMENTS:

Viscosity: 30000 cP (Brookfield RVDV-II+ Pro, Spindle 5, 10 rpm, 1 min.)

pH = 7.56

Batch: PARCAC18-08

Phase	Trade Name	INCI	Supplier	Wt%	
A	1	Water	Water (Aqua)	-	24.28
	2	Glycerine Vegetale 99.7%	Glycerin	Univar	2.00
B	3	Carbopol® Ultrez 21	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Lubrizol	0.45
C	4	Ethanol 96%	Ethanol	VWR	73.00
	5	AMP-ULTRA™ PC 2000	Aminomethyl Propanol	ANGUS	0.12
D	6	FRESH SY156184	Fragrance	Kao Fragrances	0.15

QuickTURN

Cleansing Liquid Foam

Convenient, soap-free liquid cleanser that creates a rich and airy foam for gentle, deep cleansing without stripping skin of its natural moisture.

Formulated with **TRIS AMINO™ ULTRA PC** for high-efficiency neutralization of fatty acids, creating a stable, non-yellowing liquid with high clarity and enhanced cleansing power.

PROCEDURE:

1. Combine and heat phase A at 75°C.
2. Combine and heat phase B at 75°C.
3. Slowly add phase A to phase B and mix for 20 - 30 min. at 75 - 80°C.
4. Allow mixture to cool slowly to 65°C before adding phase C. Mix until uniform.
5. Cool mixture to 45-50°C before adding phase D with gentle mixing.

6. Continue mixing till mixture has cooled to 30 - 35°C. When mixture is cooled, add phase E with gentle mixing.

COMMENTS:

Viscosity: 10 cP (Brookfield LVT-2, 60 rpm, 1 min, 25°C)

pH = 8.36

Batch: SGCAC18-02

Phase	Trade Name	INCI	Supplier	Wt%
A	1	Myristic Acid	Sigma Aldrich	6.00
	2	Lauric Acid	Sigma Aldrich	2.67
	3	Stearic Acid	Sigma Aldrich	0.67
B	4	Water	-	69.24
	5	TRIS AMINO™ ULTRA PC	ANGUS	7.05
	6	Butylene Glycol	Acros Organics	6.67
	7	Glycerin	Fisher Scientific	2.00
	8	Disodium EDTA	Chempure	0.05
C	9	Softazoline® CH-R	Kawaken	2.00
	10	Softazoline® LHL	Kawaken	2.00
D	11	Hydrolite® 6	Symrise	1.50
E	12	Fragrance	Sigma Aldrich	0.15

PowerLIFT

Post-Workout/Refresh Wipes

Portable face and body wipes that clean, cool and refresh skin anywhere, anytime by washing away stubborn makeup smudges, sticky sweat and dirt buildup; 100% fragrance-free.

Formulated with **TRIS AMINO™ ULTRA PC** for enhanced control of common body off-odors.

PROCEDURE: (cold process with propeller - heidolph device)

1. Combine all ingredients from phase A under stirring following the order indicated.
2. Premix the phase B and pour into phase A.
3. Add phase C.

COMMENTS:

Appearance: Low-viscosity liquid

pH = 6.5-7.5

Batch: SPCAC18-05

Phase	Trade Name	INCI	Supplier	Wt%	
A	1	Water	Water (Aqua)	-	87.85
	2	Disodium Phosphate	Disodium Phosphate	Labsynth	0.2
	3	VERSENE® Na2 Crystals	Disodium EDTA	Dow	0.2
	4	Sodium Benzoate	Sodium Benzoate	Labsynth	0.3
	5	TRIS AMINO™ ULTRA PC	Tromethamine	ANGUS	3
	6	Citric Acid	Citric Acid	Labsynth	1.5
	7	GENENCARE® OSMS BA	Betaine	DuPont	2
	8	Tocoferyl Acetate	Tocopheryl Acetate	Quimica Anastacio	0.05
	9	Tween 20	Polisorbate 20	Labsynth	1
	10	Lipockam 2CHV	Disodium Cocoamphodiacetate	Vantage	0.5
	11	Aloe Barbadosensis Leaf Extract	Aloe Barbadosensis Leaf Extract	Armazem Aroma Brasil	0.5
B	12	Ethanol	Ethanol	Labsynth	2.5
	13	Menthol	Menthol	Labsynth	0.3
C	14	Neolone	Phenoxyethanol and Methylisothiazolinone	Dow	0.1

About **FACE**

Paste Face Wash

Mild, effective face cleanser that gently washes away dirt and dead skin, leaving it silky-smooth and healthy-looking.

Formulated with **TRIS AMINO™ ULTRA PC** for efficient neutralization of fatty acids to provide improved cleansing efficiency and attractive pearlescent appearance.

PROCEDURE:

1. Combine all ingredients in phase A and heat at 75°C.
2. Combine all ingredients in phase B and heat at 75°C.
3. Add phase B slowly into phase A while homogenizing. Homogenize at 4000±200 rpm for 10 min.
4. Add phase C to phase AB while homogenizing for 5 min. at 4000 ±200 rpm.
5. Stir gently to cool the mixture until it reaches room temperature.

6. Add phase D to the mixture with gentle stirring.

COMMENTS:

Viscosity: 57000 cP (Brookfield RV, Spindle 6, 10 rpm, 1 min, 25°C)

pH = 7.77

Batch: SGCAC18-03

Phase	Trade Name	INCI	Supplier	Wt%	
A	1	Water	Water (Aqua)	-	38.73
	2	TRIS AMINO™ ULTRA PC	Tromethamine	ANGUS	11.97
	3	Glycerin	Glycerin	Fisher Scientific	10.00
	4	PEG-400	PEG-400	Chempure	3.00
B	5	Stearic Acid	Stearic Acid	Sigma Aldrich	14.00
	6	Lauric Acid	Lauric Acid	Sigma Aldrich	10.00
	7	Myristic Acid	Myristic Acid	Sigma Aldrich	6.00
	8	AMISOFT® HS-11P	Sodium Stearyl Glutamate	Ajinomoto	1.50
C	9	IMEX SB 30	Cocamidopropyl Betaine	IMCD	3.00
	10	Hydrolite® 6	1,2-Hexanediol	Symrise	1.50
D	11	Japanese Yuzu	Fragrance	IFF	0.30