

**ANGUS**<sup>®</sup>  
CHEMICAL COMPANY



# J. beauty



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DISCOVER A **BETTER** WAY™

**QUALITY** manufacturing.  
**REVOLUTIONARY** science.  
**UNDERSTATED** opulence.



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**J-Beauty is defined by a sophisticated simplicity rooted in centuries-old traditions of harnessing highly effective indigenous ingredients, proven formulations and minimalist regimens. Each formulation embodies a rich cultural heritage where every ingredient is contemplated to create products that are timeless, efficacious and luxurious.**

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At ANGUS, we live by the J-Beauty philosophy that only a few ingredients can be beautiful if done right. Discover the timeless, in-formulation versatility, efficiency and stability of ANGUS' high-purity ULTRA PC™ multifunctional amino alcohols:

- TRIS AMINO™ ULTRA PC (INCI: Tromethamine)
- AMP-ULTRA™ PC 2000 (INCI: Aminomethyl Propanol)
- AMPD ULTRA PC™ (INCI: Aminomethyl Propanediol)

DISCOVER A **BETTER** WAY™ for your J-Beauty skin care formulations with ANGUS.



# **Functionality and simplicity with long-term results**

From cleansing and hydration to advanced protection against sun exposure, innovation in J-Beauty continues to deliver breakthroughs in textures, efficacy and long-term reliability through unique, science-driven products.

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**ANGUS' ULTRA PC™ multifunctional amino alcohols produce an excellent synergistic effect with fatty acid emulsifiers, carbomer and acidic resins to deliver robust multifunctional performance across a wide range of skin care applications.**

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- Improves viscosity and emulsion stability for creating creamy, silky textures
- Is odorless and non-yellowing in formulations
- Ideal for sensitive skin formulations
- Enhances application, spreadability and feel
- Improves inorganic pigment dispersion for low white-cast residue in mineral sunscreens
- Improves film recovery in presence of pigments
- Favorable health and environmental profile

The ULTRA PC portfolio of multifunctional additives provides formulators with unique combinations of high-efficiency neutralization, improved emulsion stabilization and enhanced pigment dispersion, while enabling the formulation of creative textures and sensory experiences to meet today's consumer market trends.

## Exfoliating Rice Face Scrub

Phase	Trade Name	INCI	Supplier	Wt%
A	Water	Water (Aqua)	-	79.35
	Glycerin	Glycerin	-	3.00
	Carbopol® Ultrez 20 Polymer	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Lubrizol	0.30
B	PROMULGEN™ D Nonionic emulsifier	Cetearyl Alcohol (and) Ceteareth 20	Lubrizol	3.30
	Stearic Acid	Stearic acid	-	2.00
	Joboba Oil	Simmondsia Chinensis (Jojoba) Seed Oil	-	3.00
	Coconut Oil	Cocos Nucifera (Coconut) Oil	-	2.00
C	TRIS AMINO™ ULTRA PC (20% solution)	Tromethamine	ANGUS	1.25
D	euxyl® K 900	Benzyl Alcohol (and) Ethylhexylglycerin (and) Tocopherol	Schülke	0.80
	Tocomix™ L50-IP	Tocopherol, Helianthus Annuus (Sunflower) Seed Oil	Advanced Organic Materials	1.00
E	Rice Husk Powder	Oryza Sativa (Rice) Husk Powder	Natural Sourcing	1.00
	Florabeads® RBW (Natural)	Oryza Sativa (Rice) Bran Wax	Floratech	3.00

**PROCEDURE:**

1. Disperse Carbopol Ultrez 20 into water and glycerin and stir for 10 min. Heat phase A at  $70\pm 5^{\circ}\text{C}$ .
2. Combine and heat phase B at  $70\pm 5^{\circ}\text{C}$ .
3. Add phase B to phase A under high shear until a smooth and glossy emulsion is formed.
4. Add TRIS AMINO solution until pH reaches 5.50. Mix until uniform.
5. When sample cools to below  $45^{\circ}\text{C}$ , add phase D with stirring.
6. Add phase E with mixing.

**NOTES:**

**Appearance:** White cream with suspended brown particles

**Target pH** = 6.0 - 6.5

**Stability:** 2 months at room temperature,  $45^{\circ}\text{C}$  and  $4^{\circ}\text{C}$

## Gentle Liquid Cleansing Foam

Phase	Trade Name	INCI	Supplier	Wt%
A	Myristic Acid	Myristic Acid	-	6.00
	Lauric Acid	Lauric Acid	-	2.67
	Stearic Acid	Stearic Acid	-	0.67
B	Water	Water (Aqua)	-	69.24
	TRIS AMINO™ Ultra PC	Tromethamine	ANGUS	7.05
	Butylene Glycol	Butylene Glycol	-	6.67
	Glycerin	Glycerin	-	2.00
	Disodium EDTA	Disodium EDTA	-	0.05
C	SOFTAZOLINE® CH-R	Sodium Cocoamphoacetate	Kawaken	2.00
	SOFTAZOLINE LHL	Sodium Lauroamphoacetate	Kawaken	2.00
D	Hydrolite® 6	1,2-Hexandiol	Symrise	1.50
E	Fragrance	Fragrance	-	0.15



**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.

**NOTES:**

**pH** = 8.36

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

**Appearance:** Clear liquid

**Stability:** 2 months at room temperature, 45°C and 4°C

# Jelly Lotion

Phase	Trade Name	INCI	Supplier	Wt%
A	Demineralized Water	Water (Aqua)	-	89.13
	Carbopol® Ultrez 21	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Lubrizol/Gattefossé	0.20
B	Xanthan Gum FFCSP-PC	Xanthan Gum	Jungbunzlauer	0.20
	Glycerine Vegetale 99.7%	Glycerin	Univar	3.00
	Butylene Glycol	Butylene Glycol	Univar	5.00
	euxyl® PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	Schülke	0.50
	D-Panthenol	Panthenol	DSM	1.00
C	Neo Actipone® Organic Green Tea	Maltodextrine, Camellia Sinensis Leaf Extract	Symrise	0.10
D	TRIS AMINO™ ULTRA PC (20% in water)	Tromethamine	ANGUS	0.17
E	MATCHA TEA SK 159025	Parfum/Fragrance	Kao Fragrances	0.10
	TAGAT® CH 40	PEG-40 Hydrogenated Castor Oil	Evonik	0.60

**PROCEDURE:** (cold process with propeller - Heidolph device - 200g)

1. Weigh Carbopol Ultrez 21 into water and let hydrate a few minutes.
2. Mix B separately under magnetic stirring and heated to 40°C. Solubilize well D-Panthenol to avoid issues with incorporation when adding in water.
3. Add C and mix at 450 rpm and neutralize with TRIS AMINO ULTRA PC (20% in water) at pH 5.5.
4. Mix well E and heat to 40°C and add to the rest of the formula.

**NOTES:**

**Appearance:** Transparent gel, near water-white color

**pH** = 5.5

**Stability:** 2 months at room temperature, 45°C and 4°C

**Viscosity:** Brookfield RV - Spindle 5, speed 30 rpm - 1 min.: 3360 cPs (25%)

## Anti-Ageing and Anti-Pollution Cream

Phase	Trade Name	INCI	Supplier	Wt%
A	Demineralized Water	Water (Aqua)	-	63.64
	Butylene Glycol	Butylene Glycol	Univar	2.50
	Glycerine Vegetale 99,7%	Glycerin	Univar	2.50
	Microcare® PHDG	Phenoxyethanol (and) Caprylyl Glycol (and) Decylene Glycol	Thor	1.00
	Neo Actipone® Organic Green Tea	Maltodextrine, Camellia Sinensis Leaf Extract	Symrise	0.10
	ACULYN™ 88	Acrylates/Stearth-20 Methacrylate Crosspolymer	Dow	1.50
A1	TRIS AMINO™ ULTRA PC (20% in water)	Tromethamine	ANGUS	3.26
B	LANETTE® O OR	Cetearyl Alcohol	BASF	3.00
	Myritol® 312	Caprylic Capric Triglyceride	BASF	5.00
	TEGOSOFT® P	Isopropyl Palmitate	Evonik	5.00
	KARITE OR	Butyrospermum Parkii (Shea Butter)	Sophim	2.00
	TEGO® CARE 165	Glyceryl Stearate PEG-100 Stearate	Evonik	2.00
	AMPHISOL® A	Cetyl Phosphate	DSM	1.50
	XIAMETER™ PMX 200 - 350cs	Dimethicone	Dow	2.00
	PHYTOSQUALAN®	Squalane	Sophim	2.00
C	SymVital® Age Repair	Zingiber Officinale (Ginger) Root Extract	Symrise	0.10
D	Unicert Red K7057-J (0.01% in solution)	CI 17200	Sensient	2.80
E	GREEN TEA SK 159026	Parfum/Fragrance	Kao Frangrances	0.10

**PROCEDURE:** (Silverson and Ancre's Heidolph - 250g)

1. Mix A with hot water and add TRIS AMINO ULTRA PC to neutralize and homogenize at 350 rpm under Heidolph.
2. Heat B at 85 - 90°C. Add B into A and homogenize at 2500 rpm for 5 min. with Silverson.
3. Mix with Heidolph at 400 rpm and homogenize a second time at 40°C at 600 rpm.
4. Under 30°C add one by one, C, D and E under mixing at 500 rpm.
5. Adjust pH to 6.5.

**NOTES:****Appearance:** Pinkish cream, shiny and smooth**pH** = 6.5**Stability:** 2 months at room temperature, 45°C and 4°C**Viscosity:** Brookfield RV - Spindle 6, speed 100 rpm - 1 min.: 5110 cPs (51%)

## Skin Whitening Cream

Phase	Trade Name	INCI	Supplier	Wt%
A	Water	Water (Aqua)	-	80.00
	Glycerin	Glycerin	-	3.00
	Carbopol® Ultrez 30 Polymer	Carbomer	Lubrizol	0.30
B	Olivem 1000	Cetearyl Olivatate (and) Sorbitan Olivatate	Hallstar	3.00
	Crodamol IPIS	Isopropyl isostearate	Croda	5.00
	Jojoba oil	jojoba oil	-	2.00
C	TRIS AMINO™ ULTRA PC (20% solution)	Tromethamine	ANGUS	2.00
D	Gransil SiW-038	Dimethicone (and) Polysilicone-11 (and) Butyrospermum Parkii (Shea) Butter (and) Water (and) Glycerin (and) Decyl Glucoside	Grant Industries	2.50
	euxyl® K900	Benzyl Alcohol (and) Ethylhexylglycerin (and) Tocopherol	Schülke	0.70
	Tocomix™ L50-IP	Tocopherol, Helianthus Annuus (Sunflower) Seed Oil	Advanced Organic Materials	0.50
	Winhibin™	Propanediol (and) Palmitoyl sh-Tripeptide-53 Amide	Equip for Skin	1.00

**PROCEDURE:**

1. Disperse Carbopol Ultrez 30 into water and glycerin and stir for 10 min. Heat phase A at  $70\pm 5^{\circ}\text{C}$ .
2. Combine and heat phase B at  $70\pm 5^{\circ}\text{C}$ .
3. Add phase B to phase A under high shear until a smooth and glossy emulsion is formed.
4. Add TRIS AMINO ULTRA PC solution until pH reaches 7.0. Mix until uniform.
5. When sample cools to below  $45^{\circ}\text{C}$ , add phase D with stirring.

**NOTES:**

**Appearance:** White Cream

**pH** = 7.0 - 7.5

**Stability:** 2 months at room temperature,  $45^{\circ}\text{C}$  and  $4^{\circ}\text{C}$

# Eye Contour Cream

Phase	Trade Name	INCI	Supplier	Wt%
A1	Demineralized water	Water (Aqua)	-	74.30
	Butylene Glycol	Butylene Glycol	Univar	2.50
	Microcare® PHDG	Phenoxyethanol (and) Caprylyl Glycol (and) Decylene Glycol	Thor	1.00
	Eau de Thé Matcha	Camellia Sinensis Leaf Water	Solabia	1.00
	ACULYN™ 28	Acrylates/Beheneth-25 Methacrylate Copolymer	Dow	2.50
A2	Glycerine Vegetale	Glycerin	Univar	2.50
	Xanthan Gum FFCSP-PC	Xanthan Gum	Jungbunzlauer	0.20
B	TRIS AMINO™ ULTRA PC (20% in Water)	Tromethamine	ANGUS	1.00
C1	DOWSIL™ FZ-3196	Caprylyl Methicone	Dow	5.00
	DOWSIL™ 3901 Liquid Satin Blend	Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer	Dow	2.00
C2	DUB ININ	Isononyl Isonanoate	Stearinerie Dubois	2.00
	Myritol® 312	Caprylic/Capric Triglyceride	BASF	5.00
D	SYN-EYE®	Palmitoyl Tripeptide-5, Panthenol, Sodium Hayluronate, Algae (Dunaliella Salina) Extract	DSM	1.00



**PROCEDURE:** (cold process with propeller - Heidolph device - 250g)

1. Weigh phase A1. Mix A1 with a spatula and add into A2 and homogenize with a propeller 400 rpm.
2. Add TRIS AMINO ULTRA PC to neutralize and adjust the pH to 6.5. The solution becomes clear, transparent and thicker.
3. Mix C1 and C2 under magnetic stirring separately. Add C1 and mix for 5 min., then add C2 and mix.
4. Add phase D at 500 - 600 rpm. The formula becomes white and less thick.

**NOTES:**

**Appearance:** White gel-cream, smooth and shiny

**pH** = 6.5

**Stability:** 2 months at room temperature, 45°C and 4°C

**Viscosity:** Brookfield RV - Spindle 5, speed 60 rpm - 1 min.: 4067 cPs (61%)

## UV Water Spray with PBSA, SPF 50

Phase	Trade Name	INCI	Supplier	Wt%
A	Neo Heliopan® Hydro	Phenylbenzimidazole Sulfonic Acid	Symrise	2.00
	Demineralized Water	Water (Aqua)	-	44.68
A1	TRIS AMINO™ ULTRA PC (20% in Water)	Tromethamine	ANGUS	5.33
A2	Dissolvine® Na2-P	Disodium EDTA	AkzoNobel	0.50
	Glycerin	Glycerin	Univar	2.50
	Microcare® PE	Phenoxyethanol	Thor	0.50
A3	Ethanol	Alcohol Denat.	-	3.00
B1	Cetiol® CC	Dicaprylyl Carbonate	BASF	10
	Cetiol® OE	Dicaprylyl Ether	BASF	10
	DUB™ DIS	Diisopropyl Sebacate	Stearinerie Dubois	2
	TINOSORB® S	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	BASF	2
B2	Neo Heliopan® 303	Octocrylene	Symrise	2
	Parsol® 1789	Butyl Methoxydibenzoylmethane	DSM	2
	UVINUL® T 150	Ethylhexyl Triazone	BASF	2
	Neo Heliopan® HMS	Homosalate	Symrise	6
	Parsol® EHS	Ethylhexyl Salicylate	DSM	5
C	MONOI SY 156181	Parfum/Fragrance	Kao Fragrances	0.5

**PROCEDURE:** (cold process)

1. Mix A under magnetic stirring and add TRIS AMINO ULTRA PC to adjust pH to 7.2.
2. Add A2 and A3 and adjust pH at 7.2 under magnetic stirring.
3. Mix B1 together under magnetic stirring and heat at 80 - 85°C until solubilization and individually add B2 filters under magnetic stirring.
4. Cool B mixture to 30°C and add phase C.

**NOTES:****Appearance:** Biphasic**pH** = 7.2**Stability:** 2 months at room temperature, 45°C and 4°C**SPF in-vitro:** 50**Critical wavelength** (methode Colipa 2009 or 2011):  
SPF (50 labeled)/UVA < 3**Regulatory compliance:** Europe, APAC and LATAM  
for UV filters in formulation

# SPF 50 Suncare Lotion

Phase	Trade Name	INCI	Supplier	Wt%
A	Glucate™ SS	Methyl Glucose Sesquiosostearate	Lubrizol	1.0
	Glucamate™ SSE-20	PEG-20 Methyl Glucose Sesquiosostearate	Lubrizol	1.50
	Lonzest™ MSA	Glyceryl Stearate, PEG-100 Stearate	Lonza	2.00
	Cetostearyl alcohol	Cetearyl Alcohol	-	1.50
	Lipex SheaLight™	Butyrospermum Parkii	AAK AB	2.00
	DOWSIL™ FZ-3196	Caprylyl Methicone	Dow	2.00
	Uvinul® A Plus	Diethylamino Hydroxybenzoyl Hexyl Benzoate	BASF	2.00
	Escalol® 557	Ethylhexyl Methoxycinnamate	Ashland	8.00
	Escalol® 587	Ethylhexyl Salicylate	Ashland	2.00
	STR-100A-LP	Titanium Dioxide	Sakai	4.00
Vitamin E-Acetate	Tocopheryl Acetate	DSM	0.10	
XIAMETER™ PMX 200 100CS	Dimethicone	Dow	3.00	
B	Deionized Water	Water (Aqua)	-	Q.S.: 54.00
	Xanthan Gum	Xanthan Gum	DSM	0.15
	Carbopol™ Ultrez 20	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Lubrizol	0.10
	Hyaluronic Acid	Hyaluronic Acid	Shandong Yinshengwu	0.05
	PBSA	Phenylbenzimidazole Sulfonic Acid	Symrise	3.00
	TRIS AMINO™ ULTRA PC	Tromethamine	ANGUS	1.30
	SunSpheres™ Powder	Styrene/Acrylates Copolymer	Dow	5.50
Butylene Glycol	Butylene Glycol	Daicel Chiral	4.00	
C	NEOLONE™ PHCG	Phenoxyethanol, Caprylyl Glycol	Dow	0.70
	Fragrance	Fragrance	Firmenich	0.10
	GP4G SP™	Water, Artemia Extract	Ashland	1.00
	Blumilight™ Biofunctional	Water, Butylene Glycol, Theobromacacao Extract	Ashland	1.00

**PROCEDURE:**

1. Heat phase A and phase B to 80°C, respectively, mix with each other, homogenize for 3 - 5 min., keep heat for a while. Make up water in terms of water loss.
2. Reduce temperature to 45°C, then add phase C. Stir to get homogeneous phase and let temperature to recover to room temperature.

**NOTES:**

**Appearance:** White to light yellow gloss cream

**Viscosity:** Brookfield RV - Spindle 6, speed 12 rpm - 1 min.: 32000 cPs 38%

**pH** = 6.5

**Stability:** 2 months at room temperature, 45°C and 4°C

# Bouncy Sleeping Mask

Phase	Trade Name	INCI	Supplier	Wt%
A	DeminerIALIZED Water	Water (Aqua)	-	64.73
	Glycerine Vegetale 99.7%	Glycerin	Univar	3.00
	Butylene glycol	Butylene Glycol	Univar	5.00
	Sensiva® SC 10	Caprylyl Glycol (and) Ethylhexylglycerin	Schülke	0.50
	D-Panthenol	Panthenol	DSM	1.00
	MONTANOX™ DF 20	Polysorbate 20	Seppic	2.00
	ACULYN™ 28	Acrylates/Beheneth-25 Methacrylates Copolymer	Dow	3.00
	ACULYN 88	Acrylates/Steareth-20 Methacrylate Crosspolymer	Dow	1.00
	Neo Actipone Organic Green Tea	Maltodextrine, Camellia Sinensis Leaf Extract	Symrise	0.10
B1	DOWSIL™ 3901 Liquid Satin Blend	Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer	Dow	2.00
	XIAMETER™ PMX 200 silicone fluid - 350 cs	Dimethicone	Dow	5.00
	DOWSIL™ FZ 3196	Caprylyl Methicone	Dow	2.50
B2	Myritol® 312	Caprylic/Capric Triglyceride	BASF	2.50
	LANOL™ 99	Isononyl Isonanoate	Seppic	5
	Lipovol® ALM-N	Sweet Almond Oil	Vantage	1
C	TRIS AMINO™ ULTRA PC (20% in water)	Tromethamine	ANGUS	1.57
D	WHITE TEA	Parfum/Fragrance	Kao Fragrancest	0.1

**PROCEDURE:** (cold process with propeller - Heidolph device - 200g)

1. Weigh phase A and mix under propeller at 400 - 450 rpm.
2. Premix B1 under magnetic stirring for 5 min. and add B2 and mix under magnetic stirring for 2 min.
3. Add B mixture into A at 450 - 500 rpm for 2 min.
4. Neutralize with TRIS AMINO ULTRA PC and mix for 5 min. at 500 rpm to achieve pH 6.5.

**NOTES:**

**Appearance:** Off-white bouncy cream with a memory shape, smooth and shiny

**Viscosity:** Brookfield RV - Spindle 6, speed 12 rpm - 1 min.: 32000 cPs 38%

**pH** = 6.5

**Stability:** 2 months at room temperature, 45°C and 4°C



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