

**ae chemie**

**Beauty Expressed Through Nature**

"Unique - Natural Ingredients for Personal Care"

# About æ chemie

For over 15 years, AE Chemie has become a leading source of innovative raw materials for the personal care and cosmetic market.

## Our Mission

AE Chemie is focused on innovation and sustainability. It has a never ending commitment to provide new technologies with an emphasis on naturally derived, environmentally responsible ingredients.

Ed Armamento, the founder of AE Chemie, made a name for himself working for many years as a leading innovative chemist in the cosmetic industry. He began to see a problem with the hazardous chemicals regularly going into the cosmetic products which are used daily. He had the vision to create innovative natural ingredients that are both good for consumers and the environment. With this vision, he launched AE Chemie in 2003 out of his garage in Redondo Beach.

We at AE Chemie now serve hundreds of clients globally and have since moved from the garage to our current headquarters in Los Angeles. We continue to invest in R&D and production, to make sure our innovation pipeline is filled with new products. Through our growth, our values have remained the same: to create cutting-edge and quality cosmetic ingredients with nature's limitless possibilities.

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# Bikira® Oils & Butters

Bikira® Oils and Butters are a selection of pure exotic oils that are cold-pressed with minimal processing to retain the oil's original attributes and benefits. Using a proprietary process, these active oils from all over the world are transformed into non-hydrogenated, non-ethoxylated and preservative-free butters.



**Bikira® Argan Oil & Butter**

INCI: Argania Spinosa Kernel Oil  
INCI: Argania Spinosa Kernel Butter  
Light quick absorbing oil with powerful anti-aging and moisturization properties. Moisturizing natural butter from Argan Oil, rich in antioxidants and Omega-3, Omega-6 and Omega-9.



**Bikira® Cherry Coffee Oil & Butter**

INCI: Coffea Arabica (Coffee) Seed Oil  
INCI: Coffea Arabica (Coffee) Seed Butter  
Rich in anti-oxidants and polyphenols. Has skin firming property. Butter rich in anti-oxidant that protects cells from DNA damage. Excellent for hair and skin conditioning.



**Bikira® Green Coffee Oil & Butter**

INCI: Coffea Arabica (Coffee) Seed Oil  
INCI: Coffea Arabica (Coffee) Seed Butter  
Rich in Phytosterols, gamma Butyric Amino Acids. Very high ORAC (Oxygen Radical Absorbance Capacity) value equal to 2500. Excellent for hair and skin conditioning. Rich in Polyphenols.

**Effective Use Level:**  
1.0% to 4.0%

**Worldwide Approval:**  
Worldwide

**Benefits:**

- All Natural
- Non-Hydrogenated



**Bikira® Karanja Oil & Butter**

INCI: Pongamia Glabra Seed Oil  
INCI: Pongamia Glabra Seed Butter and Coconut Alkanes  
Moisturizing, natural oil from Karanja, rich in vitamins, nutrients and essential fatty acids



**Bikira® Hempseed Oil & Butter**

INCI: Cannabis Sativa (Seed) Oil  
INCI: Cannabis Sativa Seed Butter  
Hempseed oil, rich in vitamins and nutrients, contains 21 amino acids and all 8 essential amino acids. Moisturizing for hair and skin. Excellent for hair strengthening, cleansing and skin conditioning.



**Bikira® Marula Oil & Butter**

INCI: Sclerocarya Birrea Seed Oil  
INCI: Sclerocarya Birrea Seed Butter  
Super-antioxidant oil with moisturizing properties for anti-aging and cosmetic applications. Moisturizing natural butter from Marula oil, rich in antioxidants and Omega-9 and Omega-6. Outstanding oxidative stability.



**Bikira® Meadowfoam Oil & Butter**

INCI: Limnanthes Alba (Meadowfoam) Seed Oil  
INCI: Limnanthes Alba (Meadowfoam) Seed Butter  
Oil with a gentle cleansing property, excellent for sensitive skin. Moisturizing natural butter from Meadowfoam oil is rich in antioxidants, vitamins and nutrients.



**Bikira® Coconut Oil & Butter**

INCI: Cocos Nucifera (Coconut) Oil  
INCI: Cocos Nucifera (Coconut) Butter  
Natural moisturizing property for healthy skin. Moisturizing, natural butter from coconut oil, rich in antioxidants, vitamins and nutrients.



**Bikira® Baobab Oil & Butter**

INCI: Adansonia Digitata (Baobab) Seed Oil  
INCI: Adansonia Digitata Seed Butter  
Organic cold-pressed oil that provides intensive moisturization for skin care and hair care treatments. Moisturizing, natural butter from Baobab oil, rich in antioxidants, vitamins and nutrients.



**Bikira® Cranberry Oil & Butter**

INCI: Vaccinium Macrocarpon (Cranberry) Seed Oil  
INCI: Vaccinium Macrocarpon (Cranberry) Seed Oil  
Organic Cranberry seed oil rich in Omega-3 and Omega-6 fatty acids.



**Bikira® Mongongo Oil & Butter**

INCI: Schinziophyton Rautanenii Kernel Oil  
INCI: Schinziophyton Rautanenii Kernel Butter  
UV/Heat activated polymerizing oil for use in hair care (straightening & antifrizz) and skin care applications. Highly moisturizing natural butter from Mongongo oil rich in antioxidants, vitamins and nutrients.



**Bikira® Moringa Oil & Butter**

INCI: Moringa Oleifera Seed Oil  
INCI: Moringa Oleifera Seed Butter  
Powerful anti-inflammatory, anti-aging oil with excellent antioxidant properties. Super nourishing butter with excellent protection properties. Highly emollient and conditioning.



**Bikira® Olive Oil & Butter**

INCI: Olea Europaea (Olive) Fruit Oil  
INCI: Olea Europaea (Olive) Fruit Butter  
Wild Mediterranean olive oil. Easily absorbed with high content of polyphenols. Moisturizing natural butter from olive oil is rich in vitamins, nutrients and antioxidants. Contains Vitamins A and E. Excellent for hair and skin conditioning.

# Aecosoft® Surfactants

A new line of naturally derived Alkyl Polyglucoside (APG) Surfactants utilizing the unique properties found in various organic oils. Using a proprietary patent pending process, Aecosoft® retains much of the characteristics of the donor oil. Aecosoft® is a non-ionic and can be used in a wide range of applications, esp. for sensitive skin. Aecosoft® can be used a primary or secondary surfactant.

**Physical and Chemical Data Appearance:**  
Semi-viscous to viscous clear liquid

**Odor:**  
Slight, characteristics

**Contents:**  
Active substance: 30 - 40 %  
Water: 40-60%

**pH Value (10% in water):**  
Neutralized: 6-8  
Un-neutralized: 10-14

**Microbiology data:**  
Bacteria: <100 cfu/g  
Yeasts and molds: <100 cfu/g

**Solubility:**  
Soluble in water, also high concentration  
Insoluble in mineral and vegetable oils



**Aecosoft® Argan**

INCI: Lauryl Glucoside, Argania Spinosa Kernel Oil  
Naturally (plant) derived. Contains organic Argan Oil. Mild and non-irritating. Superior mildness compared to coco glucoside. Suitable for baby & sensitive skin formulations. IECIC Approved.



**Aecosoft® Cherry Coffee**

INCI: Lauryl Glucoside (and) Coffea Arabica (Coffee) Seed Oil (and) Water  
Naturally (plant) derived. Contains naturally (plant) derived. Contains organic Cherry Coffee Oil. Rich in antioxidants. Mild and non-irritating. Moisturizing properties. Reduces harshness as co-surfactant. Suitable for baby and sensitive skin formulations. Superior mildness compared to coco glucoside.



**Aecosoft® Green Coffee**

INCI: Lauryl Glucoside (and) Coffea Arabica (Coffee) Seed Oil (and) Water  
Naturally (plant) Derived. Contains organic Green Coffee Oil. Rich in Antioxidants. Mild and non-irritating. Moisturizing properties. Reduces harshness as co-surfactant. Suitable for baby and sensitive skin formulations. Superior mildness compared to coco glucoside.



**Aecosoft® Hemp Seed**

INCI: Lauryl Glucoside (and) Cannabis Sativa Seed Oil (and) Water  
Naturally (plant) derived. Contains naturally (plant) derived. Excellent, creamy, stable foam. Gentle and non-irritating. Moisturizing properties. Reduces harshness as co-surfactant. Suitable as a primary or secondary surfactant.



**Aecosoft® Marula**

INCI: Lauryl Glucoside (and) Sclerocarya Birrea Seed Oil (and) Water  
Naturally (plant) derived. Rich in Omega-6 and 9. Mild and non-irritating. Nourishing and moisturizing properties for hair and skin. Reduces harshness as co-surfactant. Suitable for baby and sensitive skin formulations.



**Aecosoft® Meadowfoam**

INCI: Lauryl Glucoside (and) Limnanthes Alba (Meadowfoam) Seed Oil (and) Water  
Naturally (plant) derived. Contains organic Meadowfoam seed Oil. Rich in antioxidants. Mild and non-irritating. Moisturizing properties. Reduces harshness as co-surfactant. Suitable for baby and sensitive skin formulations. Superior mildness compared to coco glucoside.



**Aecosoft® Moringa**

INCI: Lauryl Glucoside (and) Moringa Oleifera Seed Oil (and) Water  
Naturally (plant) derived. Contains organic Moringa Oil. Rich in antioxidants. Mild and non-irritating. Moisturizing properties. Reduces harshness as co-surfactant. Suitable for baby and sensitive skin formulations. Superior mildness compared to coco glucoside.



**Aecosoft® Olive**

INCI: Lauryl Glucoside (and) Olea Europaea (Olive) Fruit Oil (and) Water  
Naturally (plant) derived. Rich, creamy foam. Gentle and non-irritating. Moisturizing properties. Reduces harshness as co-surfactant. Suitable for tear-free baby products.



**Aecosoft® Sunflower**

INCI: Lauryl Glucoside (and) Helianthus Annuus (Sunflower) Seed Oil (and) Water  
Naturally (plant) derived. Form non-GMO Sunflower Oil. Rich, creamy foam. Mild and non-irritating. Moisturizing properties. Excellent alternative to coco- and palm-derived surfactants.

Naturally derived non-ionic surfactants utilizing the unique properties found in various Exotic oils...

argan, sunflower, cherry coffee, hempseed, marula, moringa, mongongo, green coffee, meadowfoam, coconut, baobab, cranberry, and olive



Sample Formulation 1:

## Argan All-In-One Cleanser

Item	Raw Materials	Supplier	INCI Name	% (Wt)
1	DI Water		Water	65.5000
2	AE® Glycerin	AE Chemie	Glycerin	1.0000
3	AE® Aloe Vera Extract	AE Chemie	Aloe Barbadensis Leaf Juice	1.0000
4	AE Preserve PCG®	AE Chemie	Phenethyl Alcohol, Glycerin and Caprylhydroxamic Acid	.8000
5	Aecosoft® Argan-N	AE Chemie	Lauryl Glucoside, Argania Spinosa Kernel Oil	10.0000
6	Amphotensid B5	AE Chemie	Cocamidopropyl Betaine	12.50000
7	C-14 Oleifein Sulfonate	AE Chemie	C-14 Oleifein Sulfonate	8.0000
8	Aecosolv® Sunflower-UN	AE Chemie	Sodium Sunflowerseedate	1.0000
9	Fragrance			.2000
				100.0000

Procedure:

1. Charge item #1 in the main vessel.
2. Add Items #2 - #7 one at time while mixing until homogeneous.
3. In a separate container, mix item #8 and #9 until clear then add to the batch.
4. Continue mixing until clear and homogeneous.

Result:

- Clear viscous liquid
- pH: 6.7
- Viscosity = 8,300cps (as is @25C, Spindle 05 @20rpm)  
Brookfield Viscometer RVDV-I Prime

Sample Formulation 2:

## Argan Ultra Nourishing Shampoo

Item	Raw Materials	Supplier	INCI Name	% (Wt)
1	DI Water		Water	28.7000
2	AE® Tamarindus	AE Chemie	Tamarindus Indica (Tamarind) Fruit Extract	1.0000
3	AE® Aloe Vera Extract	AE Chemie	Aloe Barbadensis Leaf Juice	1.0000
4	AE Preserve® PCG	AE Chemie	Phenethyl Alcohol, Glycerin and Caprylhydroxamic Acid	.8000
5	AECOSOFT® ARGAN-N	AE Chemie	C12-18Alkyl Glucoside, Argania Spinosa Kernel Oil	30.0000
6	Fullerene	AE Chemie	Fullerene	1.0000
7	D-Panthenol		Panthenol	.5000
8	Coco Gly Doc		PEG 120 Methyl Glucose Dioleate (and) Sodium Cocoyl Glycine (and) Olivoil PCA (and) Aqua	.5000
9	Aecosolv® Sunflower-UN	AE Chemie	Sodium Sunflowerseedate	1.0000
10	Fragrance			.5000
11	C-14 Oleifein Sulfonate	AE Chemie	C-14 Oleifein Sulfonate	20.0000
12	Amphotensid B5	AE Chemie	Cocamidopropyl Betaine	15.0000
				100.0000

Procedure:

1. Charge item #1 in the main vessel.
2. Add Items #2 - #8 one at time while mixing until homogeneous.
3. In a separate container, mix item #9 and #10 until clear then add to the batch.
4. Add Items #11 and #12 then continue mixing until clear and homogeneous.

Result:

- Clear viscous liquid
- pH: 7.2
- Viscosity = 7500cps (as is @25C, Spindle 05 @20rpm)  
Brookfield Viscometer RVDV-I Prime

# Aecosolv® Solubilizers

100% naturally plant derived. Non-ethoxylated/non-hydrogenated and biodegradable. Solubilizes fragrance and a wide range of lipophilic ingredients to create clear formulations. No tacky or sticky after feel. Does not affect foaming of detergent systems.

## Physical and Chemical Data Appearance:

Viscous clear liquid

## Odor:

Slight, characteristics

## pH Value (10% in water):

Neutralized: 6-8

Un-neutralized: 10-14

## Microbiology data:

Bacteria: <100 cfu/g

Yeasts and molds: <100 cfu/g

## Solubility:

Soluble in water

Insoluble in mineral and vegetable oils



Aecosolv® Olive  
INCI: Sodium Olivates



Aecosolv® Sunflower  
INCI: Sodium Sunflowerseedate

## Sample Formulation 1:

# Fresh Cucumber Body Spray "Non-Alcohol"

Item	Raw Materials	Supplier	INCI Name	% (Wt)
1	Deionized Water		Water	95.3000
2	Sodium Citrate		Sodium Citrate	0.0600
3	Citric Acid	AE Chemie	Citric Acid	0.0400
4	<b>AECOSOLV® Olive (unneutralized)</b>	<b>AE Chemie</b>	<b>Sodium Olivates</b>	<b>2.5000</b>
5	Cucumber Fusion fragrance	AE Chemie	Fragrance	1.0000
6	Propanediol		Propanediol	0.3000
7	AE Preserve® PCG	AE Chemie	Phenethyl Alcohol, Glycerin, Caprylhydroxamic Acid	0.8000
				100.0000

## Procedure:

- (1) Charge DI Water (Item #1) into the main vessel and start mixing; Add Items # 2 & 3.
- (2) In a separate vessel, pre-mix Items #4 and #5, mix until clear. Add Item # 6. Mix until uniform.
- (3) Add pre-mix to the main vessel while mixing until clear.
- (4) Add Item #7 to the main vessel while mixing. Stop mixing when homogeneous.

## NOTE:

Adjust pH above 7 until complete clarity is achieved.

# EmulsiPure® Emulsifiers

EmulsiPure™ is an all-natural O/W emulsifier. It is used in personal care products for emulsifying, suspending, and thickening. In addition to having outstanding performance, it is plant based and non-ethoxylated. Perfect for creating lotions & creams with a non-tacky feel and velvety touch.

- Plant-based emulsifiers for lotions & creams
- Versatile emulsifying properties.
- Stable and compatible with other performance cosmetic ingredients, fragrances, acids and base
- Promotes liquid crystal emulsion
- Effective in pH range up to 9
- Non-tacky / Non-greasy afterfeel emulsions
- No hazardous chemicals
- Biodegrade

**Effective Use level:**  
3.0% to 5.0%

**Worldwide approval:**  
Approved for use in China, Korea, Japan, Canada, Australia, Europe, and USA

#### Physical properties

- Appearance: Solid flakes
- Color: Off-white
- Odor: Characteristic



#### EmulsiPure® Argan

INCI: Cetearyl Glucoside, Glyceryl Stearate and Argania Spinosa Kernel Oil  
EmulsiPure® Argan is an all natural ingredient to be used in personal care products for emulsifying, suspending and thickening.



#### EmulsiPure® Cherry Coffee

INCI: Cetearyl Glucoside, Glyceryl Stearate, Coffea Arabica (Coffee) Seed Oil  
EmulsiPure® Cherry Coffee is completely vegetable, Rich in Chlorogenic Acids, glucids, pectins, minerals, and protein.



#### EmulsiPure® Green Coffee

INCI: Cetearyl Glucoside, Glyceryl Stearate, Coffea Arabica (Coffee) Seed Oil  
EmulsiPure® Green Coffee is an all natural emulsifier that uses virgin cold press green coffee oil that are rich in Anti-Oxidants.



#### EmulsiPure® Hempseed

INCI: Cetearyl Glucoside, Glyceryl Stearate, Cannabis Sativa Oil  
EmulsiPure® Hempseed is an all natural emulsifier, Moisturizing, natural oil from Hempseed, rich in vitamins, nutrients and essential fatty acid.



#### EmulsiPure® Marula

INCI: Cetearyl Glucoside, Glyceryl Stearate, Sclerocarya Birrea Seed Oil  
EmulsiPure® Marula is an all natural emulsifier that increased hydration/ smoothness, reduced appearance of fine lines, wrinkles and redness.



#### EmulsiPure® Meadowfoam

INCI: Cetearyl Glucoside, Glyceryl Stearate, Limnanthes Alba (Meadowfoam) Seed Oil  
All-natural O/W emulsifier to make creams, lotions, and /or sprayable low viscosity liquid crystal emulsions.



#### EmulsiPure® Sunflower

INCI: Cetearyl Glucoside, Glyceryl Stearate, Helianthus Annuus (Sunflower) Seed Oil  
EmulsiPure® Sunflower is an all natural ingredient to be used in personal care products for emulsifying, suspending and thickening.



#### EmulsiPure® Moringa

INCI: Cetearyl Glucoside, Glyceryl Stearate, Moringa Oleifera Seed Oil  
EmulsiPure® Moringa is an all natural emulsifier with Antioxidant Vitamins A & E prevent formation of the radicals which causes premature aging.



#### EmulsiPure® Olive

INCI: Cetearyl Glucoside, Glyceryl Stearate, Olea Europaea (Olive) Fruit Oil  
EmulsiPure® Olive is an all natural emulsifier. Organic cold-pressed oil that provides intensive moisturization for skin and hair care treatments.

## Sample Formulation 1:

### Make up Remover (Water in Oil)

Item	Raw Materials	Supplier	INCI Name	% (Wt)
<b>OIL PHASE</b>				
1	Emulsipure® Hempseed	AE Chemie	Cetearyl Glucoside, Glyceryl Stearate, Cannabis Sativa Seed Oil	8.0000
2	Bikira® Sunflower Butter	AE Chemie	Helianthus Annuus (Sunflower) Seed Butter	1.0000
3	AE Ester 99	AE Chemie	Isononyl Isononanoate	3.0000
4	AE Estosil®	AE Chemie	Tetradecane (and) Estolide	2.0000
5	Bikira® Hempseed Oil	AE Chemie	Cannabis Sativa (Seed) Oil	4.0000
6	Cetearyl Alcohol		Cetearyl Alcohol	2.000
7	AE Tri-ACT PME®	AE. Chemie	Caprylyl Glycol, Ethylhexylglycerine, Undecylenoyl Glycine and Capryloyl Glycine	1.300
8	Bikira® Coconut Oil RBD	AE Chemie	Cocos Nucifera (Coconut) Oil	1.0000
<b>WATER PHASE</b>				
9	Deionized Water		Water	75.6000
10	EDTA		Disodium EDTA	0.1000
11	AE Glycerin	AE Chemie	Glycerin	1.0000
12	Fragrance		Fragrance	0.2000
13	Emulgel AE® CVHE	AE Chemie	Polyquaternium 37 and Propylene Glycol Dicaprylate/Dicaprate and PPG-1 Trideceth 6	0.8000
<b>TOTAL</b>				<b>100.000</b>

#### Procedure:

1. Combine Items #1 to 8 in the main vessel and heat to 65°C - 70°C. (Oil Phase)
2. In a separate vessel, dissolve Item #10 in Item #9. (Deionized Water) (Water Phase)
3. Add Items #9, #10 & 11 in water phase and heat to 65°C - 70°C.
4. When both phases are at the same temperature, add water phase in Oil Phase while mixing.
5. Homogenize for 5-7 minutes then transfer to anchor mixer at low Speed (85-100rpm).
6. Add Item #13 at 40°C and mix using propeller mixer until smooth and homogeneous.

#### Result:

Creamy Viscous Liquid

pH: 6.1 (as-is @25C)

Viscosity = 7,700cps (as is @25C, Spindle 04 @20rpm) Brookfield Viscometer RVDV-I Prime

## Sample Formulation 2:

### Green Coffee Body Cream

Item	Raw Materials	Supplier	INCI Name	% (Wt)
<b>Phase A</b>				
1	Deionized Water		Water	84.4000
<b>Phase B</b>				
2	Emulsipure® Green Coffee	AE Chemie	Cetearyl Glucoside, Glyceryl Stearate, Coffea Arabica (Coffee) Seed Oil	5.0000
3	AE® Ester CCT	AE Chemie	Caprylic/Capric Triglyceride	3.0000
4	Bikira® Olive Butter	AE Chemie	Olea Europaea (Olive) Fruit Butter	3.0000
5	Bikira® Coconut Oil	AE Chemie	Cocos Nucifera (Coconut) Oil	3.0000
<b>Phase B</b>				
6	AE Tri-ACT PME®	AE Chemie	Caprylyl Glycol, Ethylhexylglycerine, Undecylenoyl Glycine and Capryloyl Glycine	1.3000
7	Fragrance			0.3000
<b>TOTAL</b>				<b>100.0000</b>

#### Procedure:

1. Phase A: Heat Item #1 to 70°C in main vessel.
2. Phase B: Heat Items #2 - #5 in a separate beaker to 70°C until fully melted.
3. Add Phase B to Phase A under homogenization for 5 minutes.
4. Transfer to anchor propeller mixer and start cooling to 40°C while mixing at low speed (85-100 rpm).
5. At 40°C, add Items #6 & #7 one at time while mixing until homogeneous.

#### Result:

pH = (as is @ 25C)

Viscosity = cps (as is @25C, Spindle 04 @20rpm) Brookfield Viscometer RVDV-I Prime



# EmulsiPure® RTE

INCI: Glyceryl Stearate (and) Cetearyl Alcohol (and) Sodium Olivatate (and) Inulin

All-natural oil in water Room Temperature processable Emulsifier (RTE) to create creams, lotions & serums with soft, velvety skin after feel.

## Product Features

- Room Temperature processable O/W emulsifier
- 100% vegetable origin
- Multi-functional: O/W Emulsifier, thickener & stabilizer
- PEG-free, acrylate-free
- Biodegradable
- Energy cost-saver / manufacturing / production time-saver
- Developed based on green chemistry principles

## Physical Data

- Appearance: Powder
- Color: Cream
- Odor: Characteristic
- pH@ 25°C (2% in water): from 7.0 to 7.5

Recommended use level: from 5.0 to 15.0%

## Applications:

Creams, lotions, and serums

- Facial Care
- Body Care
- Baby Care



Sample Formulation:

## Room Temperature Processable Emulsifier

				LOTION	FACE CREAM
Item	Raw Materials	Supplier	INCI Name	% (Wt)	% Wt
1	Deionized Water		Water	87.200	78.200
2	Emulsipure RTE	AE Chemie	Glyceryl Stearate, Cetearyl Alcohol, Sodium Olivatate and Inulin	8.00	10.00
3	Bikira Sunflower Oil	AE Chemie	Helianthus Annuus (Sunflower) Seed Oil	3.00	4.00
4	Bikira Coconut Oil	AE Chemie	Cocos Nucifera (Coconut) Oil	-	3.00
5	AE Protek NPB	AE. Chemie	Phenoxyethanol and Ethylhexylglycerin	1.00	1.00
6	Sodium Hyaluronate 1%	AE Chemie	Sodium Hyaluronate	-	1.00
7	Fragrance	AE Chemie	Fragrance	0.800	0.800
8	AE SiL-10	AE Chemie	Sclerocarya Birrea Seed Oil (and) Tetradecane	-	2.00
			<b>TOTAL</b>	<b>100.00</b>	<b>100.00</b>

## Procedure:

1. In the main vessel, add #1 DI Water.
2. Add Emulsipure RTE and mix until all powder particles are dissolved.
3. Add Items #3 - #8, one at a time, making sure each ingredient is fully dissolved before adding the next ingredient and batch is homogeneous.
4. Continue mixing until smooth and homogeneous.

Result:

Color: Off-white

Consistency: Semi-viscous emulsion

# EmulsiPure® RTCE

INCI: Behentrimonium Chloride (and) Cetearyl Alcohol (and) Glyceryl Stearate (and) Lauryl Glucoside (and) Olea Europaea (Olive) Fruit Oil

A versatile room temperature processable cationic emulsifier (RTCE) developed to create elegant cationic creams and lotions, hair conditioners and fabric softeners.

## Product Features

- Room Temperature processable cationic emulsifier
- Multi-functional: Cationic Emulsifier, thickener & stabilizer
- PEG-free
- Palm-Oil free
- Biodegradable
- Energy cost-saver/ manufacturing/ production time-saver

## Physical Data

- Appearance: Powder
- Color: White
- Odor: Characteristic
- pH @ 25°C (2% in water): 3.8 - 4.5

Recommended use level: from 5.0 to 15.0%

## Applications:

- Hair Conditioners
- Fabric Softeners
- Cationic lotions & creams



## Sample Formulation for Hair Conditioner

Raw Materials	% Wt
Deionized Water	84.20
Squat Guar Clear NT500	0.10
EmulsiPure RTCE	10.00
Bikira Coconut Oil	2.00
Bikira Bikira® Sunflower Oil	2.00
AE Preserve PCG	1.00
Fragrance	0.70
	100.00

## Procedure:

- Charge DI water in main vessel while stirring
- Add iQuat Guar Clear NT500 while mixing until fully dissolved.
- Add the rest of each ingredient one at a time, making sure each ingredient is fully dissolved before adding the next ingredient and batch is homogeneous.
- Continue mixing until smooth and homogeneous.
- If homogenizer exists, pass through homogenizer for 3-5 mins. Otherwise, propeller mixing is adequate for a longer mixing time.

Color: White to off-white  
Consistency: Semi-viscous emulsion

Sample Formulation:

## Cationic Lotion Using RTCE

Item	Raw Materials	Supplier	INCI Name	% Wt
1	Deionized Water		Water	20.00
2	Glycerine	AE Chemie	Glycerine	8.00
3	Sodium Chloride		Sodium Chloride	0.02
4	EmulsiPure RTCE	AE Chemie	Behentrimonium chloride (and) Cetearyl Alcohol (and) Glyceryl Stearate (and) Lauryl Glucoside (and) Olea Europaea (Olive) Fruit Oil	10.00
5	Bikira® Sunflower Oil	AE Chemie	Helianthus Annuus (Sunflower) Seed Oil	2.00
6	AE Ester CCT	AE Chemie	Caprylic/Capric Triglyceride	2.00
7	AE Preserve PCG	AE Chemie	Phenethyl Alcohol, Glycerin and Caprylhydroxamic Acid	1.00
8	Fragrance	AE Chemie	Fragrance	0.40
9	Deionized Water		Water	56.58
			<b>TOTAL</b>	<b>100.00</b>

## Procedure:

- (1) In the main vessel, add DI Water.
- (2) Add EmulsiPure RTCE and mix until all powder particles are dissolved.
- (3) Add the rest of each ingredient one at a time, making sure each ingredient is fully dissolved before adding the next ingredient and batch is homogenous.
- (4) Continue mixing until smooth and homogeneous.
- (5) If homogenizer exists, pass through the homogenizer for 3-5 minutes. Otherwise, propeller mixing is adequate for a longer mixing time.

Color: White to off-white

Consistency: Semi-viscous emulsion

pH: 5.5 - 6.8

Sample Formulation 1:

# 4-in-1 Face and Neck Toner (Refresh, Nourish, Soothe and Hydrate)

Item	Raw Materials	Supplier	INCI Name	% (Wt)
Phase 1				
1	Di Water		Water	93.5000
2	AE® Aloe Vera Extract	AE Chemie	Aloe Barbadensis Leaf Juice	1.0000
3	Niacinamide		Niacinamide	1.0000
4	Fullerene	AE Chemie	Fullerene	.4000
5	Fruit Acid Complex		Water (and) Vaccinium Myrtillus (Bilberry) Fruit Extract (and) Saccharum Officinatum (Sugar Cane) Extract (and) Acer Saccharum (Sugar Maple) Extract (and) Citrus Aurantium Dulcis (Orange) Fruit Extract (and) Citrus Limon (Lemon) Fruit Extract	.3500
6	AE® Sodium Hyaluronate 1%	AE Chemie	Sodium Hyaluronate	1.0000
7	MariMoist		Water (and) Chondus Crispus Extract (and Sodium Hyaluronate	.8000
Phase 2				
8	AE® Glycerin	AE Chemie	Glycerin	1.0000
9	AE® Inulin	AE Chemie	Inulin	.1500
Phase 3				
10	AE Preserve® PCG	AE Chemie	Phenethyl Alcohol, Glycerin, Caprylhydroxamic Acid	.8000
				100.000

**Procedure:**

1. Add Phase 1, item #1 to # 7 in the main vessel one at a time under a propeller mixer and start mixing.
2. Make sure each item is fully dissolved before adding the next.
3. Phase 2, pre-mix item #8 & #9. Then add to the main vessel (Phase 1) while mixing.
4. Phase 3, add item #10 and mix for 2-3 minutes or until clear and homogeneous.

**Properties:**

Appearance - Clear, light straw-liquid

pH = 4.9 (as is @25C)

# Preservatives



**AE Preserve™ WPC**  
 INCI: Phenethyl Alcohol, Caprylyl Glycol and Ethylhexylglycerin  
 Compliant with the Whole Foods Market Quality Standards - Premium List. Broad spectrum cosmetic preservative. Effective in wide pH. Does not affect viscosity. Does not affect foaming. Moisturizing. Effective Use Level: 1.0% to 1.3%. Effective in pH range: 3.5 to 8.5



**AE Preserve™ PCG**  
 INCI: Phenethyl Alcohol, Glycerin, Caprylhydroxamic Acid  
 Natural/Plant derived. Broad spectrum cosmetic preservative. Paraben, Phenoxy and glycol free. Does not affect viscosity. Does not affect foaming. Moisturizing. Effective Use Level: 0.70% to 1.5%. Effective in pH range: 4 to 8.5



**AE Tri-Act PME™**  
 INCI: Caprylyl Glycol, Ethylhexylglycerine, Undecylenoyl Glycine and Capryloyl Glycine  
 Plant derived. Multifunctional cosmetic additive - preservative. Moisturizer, emollient. Stand-alone/complete preservative. Synergistic blend of plant derived from glycerin, lipoamino acids and ester. Stable at high temperature and wide pH range. Effective Use Level: 1.0% to 1.2%. Effective in pH range: up to 12



**AE PureProtek™**  
 INCI: Capryloyl Glycine and Undecylenoyl Glycine  
 Plant derived. Broad spectrum innovative cosmetic preservative. Synergistic blend of plant derived lipoamino acids. Globally approved. Stable at high temperature and broad pH range. Whole Food premium Compliant. Effective Use Level: 1.0% to 1.75%. Effective in pH range: 4 to 8.5



**AE PreservaPure™**  
 INCI: Phenoxyethanol, Capryloyl Glycine and Undecylenoyl Glycine  
 Broad spectrum innovative cosmetic preservative. Effective in acidic pH. Does not affect viscosity. Does not affect foaming. Stable at high temperature and broad pH range. Moisturizing. Effective Use Level: 0.8% to 1.0%. Effective in pH range: up to 12



**AE Preserve™ PX-82**  
 INCI: Musa Sapientum (Banana) Leaf/Trunk Extract  
 AE Preserve® PX-82 is a concentrated plant extract largely coming from Musa Sapientum. Rich in bioactive compounds such as flavonoids, tannins, alkaloids, glycosides, and terpenoids.



**AE Preserve™ EHG**  
 INCI: Ethylhexylglycerin  
 Vegetable derived. Innovative cosmetic preservative booster. Globally approved. Stable at high temperatures, pH and hydrolysis. Effective Use Level: 1.0% - 3%. Effective in pH range: up to 12



**AE Protek™ NPB and PLUS**  
 INCI: Phenoxyethanol and Ethylhexylglycerin  
 Broad Spectrum innovative cosmetic preservative. Globally approved. Stable at high temperatures, pH and hydrolysis. effective in acidic pH. Effective Use Level: 0.8% to 1.0%. Effective in pH range: up to 12



**AE Preserve™ E247**  
 INCI: Phenylethyl Alcohol, Caprylyl Glycol, Ethylhexylglycerin and Propanediol  
 Broad Spectrum innovative cosmetic preservative. Effective in acidic pH. Does not affect viscosity. Does not affect foaming. Moisturizing. Effective Use Level: 0.5% to 1.0%. Effective in pH range: 3.5 to 8.5

# AE Preserve® PX-82

INCI: Musa Sapientum (Banana) Leaf/Trunk Extract

AE Preserve® PX-82 is a concentrated plant extract in liquid form largely coming from Musa Sapientum. Rich in bioactive compounds such as flavonoids, tannins, alkaloids, glycosides, and terpenoids. Modified during formulation process with a series of magnetic and enzymatic transformation to produce the active enzyme.

## Product Features:

- Natural Preservative
- Disinfectant
- Rich in bioactive compounds such as a flavonoids, tannins, alkaloids, glycosides and terpenoids. Modified during formulation process with a series of magnetic and enzymatic transformation to produce active enzyme
- Contains potent enzymes that break / degrade/digest any organic or inorganic substrate from any source
- A natural source of bioactive compounds which is effective against many microorganisms

## Physical Data:

- Appearance: Liquid
- Color: Bright orange-reddish
- Odor: Botanical aroma
- Specific gravity at 27°C : 1.1069
- Viscosity cps: 1.835
- Boiling point: 103°C
- Solubility in Water: 100%
- pH range: from 5.0 to 6.5
- Flammability: Non-Flammable
- Toxicity: Non-Toxic
- Biodegradable: Readily biodegradable
- Recommended use level: from 3.0 to 4.0%



## Minimum Inhibitory Concentration Values:(MIC)

Species	AE PRESERVE™ PX-82
	%
<b>Gram Negative</b>	
Pseudomonas putida	≥ 1.8
Pseudomonas aeruginosa	≥ 1.2
Enterobacter cloacae	≥ 1.8
Escherichia coli	≥ 1.8
<b>Gram Positive</b>	
Burkholderia cepacia	≥ 1.6
Staphylococcus aureus	≥ 1.4
<b>Molds &amp; Fungi</b>	
Aspergillus brasiliensis	≥ 1.4
<b>Yeast</b>	
Candida albican	≥ 2.0

Sample Formulation:

## Marula Body Lotion (Cold Process)

Item	Raw Materials	Supplier	INCI Name	% (Wt)
1	Deionized Water		Water	74.700
2	Emulsipure RTE	AE Chemie	Glyceryl Stearate (and) Cetearyl Alcohol (and) Sodium Olivatate (and) Inulin	12.000
3	AE Preserve® PX-82	AE Chemie	Musa Sapientum (Banana) Leaf Extract and water	2.500
4	AE SiL-10	AE Chemie	Sclerocarya Birrea Seed Oil (and) Tetradecane	8.000
5	Bikira Marula Oil	AE Chemie	Sclerocarya Birrea Seed Oil	2.000
6	Cucumber Fushion Fragrance	AE Chemie	Fragrance	0.800
				<b>100.000</b>

## PROCEDURE:

- (1) Charge DI Water in main vessel while stirring.
- (2) Add Items # 2-6, one at a time while mixing, making sure each Item is fully dissolved before adding the next.
- (3) Mix until lump-free and homogeneous.
- (4) If homogenizer is available, pass through homogenizer for 5-20 minutes. Otherwise, propeller mixing is adequate.

## NOTE:

Appearance: Off-white to beige, opaque, semi-viscous emulsion.

# ACTIVES: Advance BTX

INCI: Perfluorohexane, Perfluoroperhydrophenantrene, Perfluorodecalin

*Liquid surgery without scars: a successful fight against time.*

#### Product Features:

- Anti-Wrinkle
- Increases the volume of the dermis by 10 to 15%
- Induces strong muscular relaxation
- Purges carbon dioxide from the skin
- Refresh the skin's cellular metabolism
- Penetrates the dermis quickly
- Long half life

#### Effective Use Level:

- Leave-on products: Up to 10%

#### Worldwide Approval:

- Approved for use in Japan, Canada, Austria, Europe and USA

#### Mode of Action:

The different half-lives and variable molecular weights of the combined PFCs in Advanced™ BTX maximize the acting time in the dermis. Low molecular weight PFCs penetrate the dermis readily, while the higher molecular weight PFCs penetrate slower maintaining the initial results and further moisturizing the dermis.

Advanced™ BTX is omni-phobic (not oil or water soluble). It positions itself between intercellular lipids and moisture in the skin. It volumizes the dermis by creating a 3 dimensional hexagonal micelle structure in the dermis.

Advanced™ BTX is dielectric. When applied topically to the skin, it allows the glabellar muscles to relax and find its natural position by neutralizing the electrical charges of the muscle.

Advanced™ BTX purges Carbon Dioxide from the skin cell, allowing the skin to breath and be refreshed.

#### Anti-Wrinkle Test:

- 14 days panel test consisting of 30 women, ages 35 to 40, with visible wrinkles around the eye area
- 10% Advanced™ BTX emulsion was applied twice a day around the eye area for 7 days
- Result: the moisture content of the skin increased over the period, reaching a 52% increase
- The number, depth and length of wrinkles decreased by 10 to 50%



#### Physical and Chemical Data:

- Appearance: Clear to colorless liquid
- Odor: Odorless
- Solubility in water: Insoluble
- Solubility in organic solvent: Sparingly soluble in most common solvents. Miscible with CRFC's
- Boiling point: > 54°C
- Stability: Stable under ordinary conditions of use and storage
- Shelf life: 1 year

Sample Formulation:

## Anti-Aging Serum with Advanced BTX (Cold Process)

Item	Raw Materials	Supplier	INCI Name	% (Wt)
1	Deionized Water		Water	83.8000
2	Emulgel AE CVHE	AE Chemie	Polyquaternium 37, Propylene Glycol Dicaprylate/Dicaprate and PPG-1 Trideceth-6	1.2000
3	Advanced BTX	AE Chemie	Perflurohexane, Perfluoroperhydrophenantrene and Perfluorodecalin	10.0000
4	AE SiL-10	AE Chemie	Sclerocarya Birrea Seed Oil and Tetradecane	4.0000
11	AE Preserve PCG	AE Chemie	Phenethyl Alcohol, Glycerin, Caprylhydroxamic Acid	1.0000
			<b>TOTAL</b>	<b>100.0000</b>

### COLD PROCESS

#### Procedure:

1. Charge DI water into the main vessel and start mixing.
2. Disperse Item #2 in water and continue mixing under homogeneous.
3. When uniform, add Items #3, #4, and #5 one at a time while mixing.

Appearance: Off-white semi-viscous serum

pH: 5.5 - 6.8

# ACTIVES: Vibrissa® 100

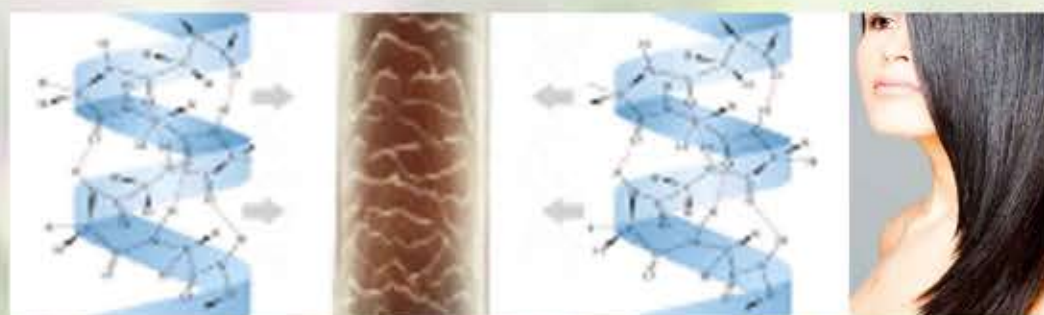
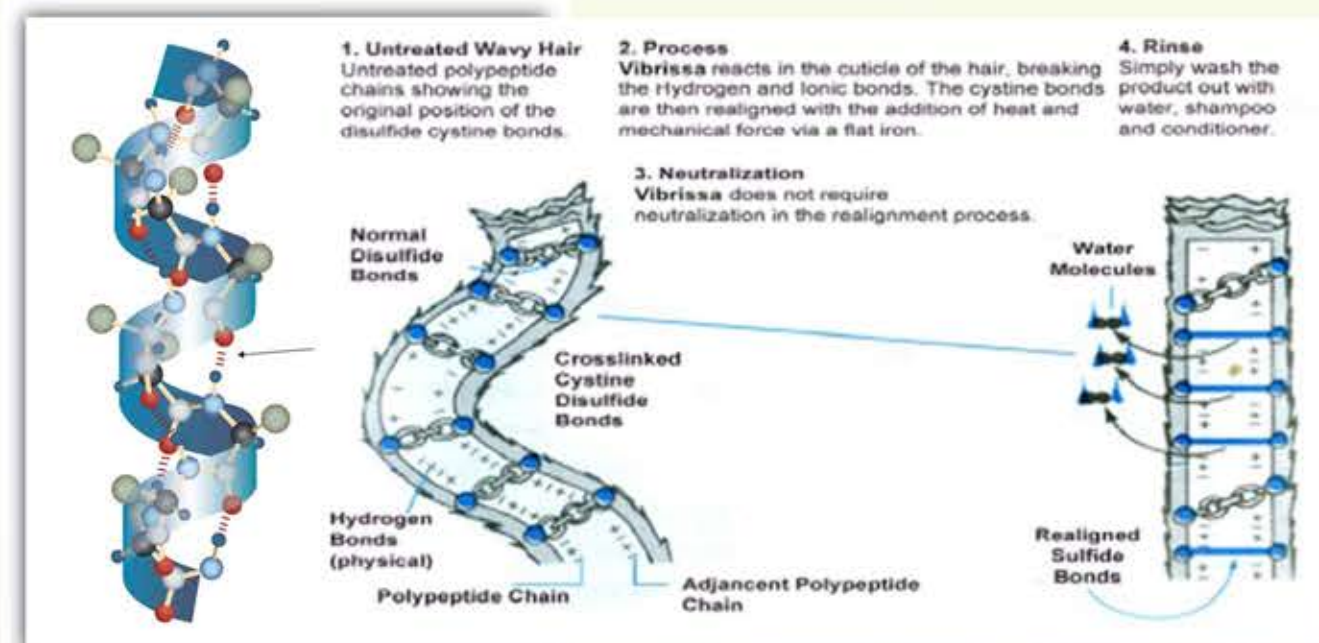
INCI: Glyoxylic Acid, Dimethyl Isosorbide, Glyoxyloyl N-Acetyl Cysteine, Tamarindus Indica Extract, Glyoxyloyl Cysteine, Glyoxyloyl Cystine, Water

Formaldehyde Free, Thermal Hair Fiber Realignment (Hair Straightening)

## Product Highlights:

Hair balm made with Vibrissa 100

- Does not damage the hair. Works by "re-aligning" the disulfide bonds in the hair cuticle with application of heat and mechanical force using a flat iron.
- Safe, non-irritating unlike other high pH, formaldehyde-containing hair straightening products which can irritate scalp and damage hair cuticle.
- Effective for different hair types from Caucasian to coarser ethnic hair.



Sample Formulation:

## Hair Straightening Balm: Professional Treatment & Leave On Balm

Item	Raw Materials	Supplier	INCI Name	% (Wt)	
				Professional Treatment	Leave On Hair Straightening Balm
1	Deionized Water		Water	57.9000	Q.S
2	iPlant Guar Clear NT 500	AE Chemie/ Kimika LLC	Guar Hydroxypropyl, Trimonium Chloride	0.3000	0.2000
3	Emulgel AE CVHE	AE Chemie	Polyquaternium 37, Propylene Glycol Dicaprylate/Dicaprate and PPG-1 Trideceth-6	2.0000	0.4000
4	Emulsipure Sunflower	AE Chemie	Cetearyl Glucoside, Glyceryl Stearate, Helianthus Annuus (Sunflower) Seed Oil	5.0000	1.5000
5	Sunquart TMS	AE Chemie/ Kimika LLC	Cetearyl Alcohol and Behentrimonium Methosulfate	3.0000	1.5000
6	Sunquart BTCA	AE Chemie/ Kimika LLC	Cetearyl Alcohol and Behentrimonium Chloride	2.0000	2.0000
7	AE Preserve PCG	AE. Chemie	Phenethyl Alcohol, Glycerin, Caprylhydroxamic Acid	1.0000	0.7000
8	Cetearyl Alcohol		Cetearyl Alcohol	6.0000	---
9	Vibrissa 100	AE Chemie	Glyoxylic Acid, Dimethyl Isosorbide, Glyoxyloyl N-acetyl Cysteine, Tamarindus Indica (Tamarind) Extract, Glyoxyloyl Cysteine, Glyoxyloyl Cystine, Water	20.0000	5.0000
10	AE Tamarindus	AE Chemie	Tamarindus Indica (Tamarind) Extract	2.0000	---
11	Fragrance (Optional)			0.8000	0.5000
			<b>TOTAL</b>	<b>100.0000</b>	<b>100.0000</b>

## Procedure:

1. In main vessel, weigh-in Item#1.
2. Sprinkle Item #2 until fully hydrated.
3. Add Item #3 to main vessel while mixing then heat to 65°C.
4. In a separate vessel, add Items #4 to #7, heat until all solids are melted then add to main vessel while mixing.
5. Start to cool at 50°C add Item #8 while mixing.
6. At 40°C, add Items #9 & 10 one at a time while mixing until homogeneous.
7. If needed, add Item #11. (Optional).

Result:

Appearance: Yellowish, viscous cream  
pH: 1.5 (as is @ 25°C)

# ACTIVES: CosmoFluor 61 & 76®

INCI 61: Methyl Perfluorobutyl Ether and Methyl Perfluoroisobutyl Ether

INCI 76: Ethyl Perfluorobutyl Ether and Ethyl Perfluoroisobutyl Ether

Self-foaming agent when combined with surfactants. Fast drying compound without VOC; enhances blooming performance of fragrance. Volatile, fast drying fluorinated compounds for cosmetic applications.

#### Properties:

- Self-foaming products provide an exciting multi-sensory experience
- Fast drying action provides a wide range of applications
- Alcohol replacement
- Safe, non-VOC
- Stable in emulsions
- Excellent (fanatical) foam booster

#### Lotions:

- Mixes well with emollients to improve spreading
- Helps achieve a clean, non-greasy feeling

#### Fragrances:

- Rapid evaporation of CosmoFluor™ allows faster diffusion of fragrances
- AE CosmoFluor™ has little odor that will not interfere with fragrances, unlike alcohols

#### Hair and Skin Cleansers:

- Removes light oils and leaves a cool fresh sensation on the skin
- AE CosmoFluor™ creates self-foaming formulations



Sample Formulation:

## Room Temperature Self Foaming Vegan Masks

Item	Raw Materials	Supplier	INCI Name	% (Wt)
1	Deionized Water			52.4000
2	Emulsipure RTE	AE Chemie	Glyceryl Stearate (and) Cetearyl Alcohol (and) Sodium Olivatate (and) Inulin	9.0000
3	Bikira Sunflower Oil	AE Chemie	Helianthus Annuus (Sunflower) Seed Oil	3.0000
4	Bikira Marula Oil	AE Chemie	Cocos Nucifera (Coconut) Oil	3.0000
5	Fragrance Cucumber Fusion		Fragrance	0.3000
6	AE Tri Act PME	AE Chemie	Caprylyl Glycol, Ethylhexylglycerine, Undecylenoyl Glycine and Capryloyl Glycine	1.3000
7	AECOPUREE Pumpkin w/ Enzyme	AE Chemie	Cucurbita Pepo (Pumpkin) Fruit	5.0000
8	AE CosmoFluor 61	AE Chemie	Methyl Perfluorobutyl Ether and Methyl Perfluoroisobutyl Ether	6.0000
9	Amphotensid B5		Cocamidopropyl Betaine	10.0000
10	AECOSOFT Sunflower-N	AE Chemie	Lauryl Glucoside and Helianthus Annuus (Sunflower) Seed Oil	10.0000
				100.0000

#### Procedure:

- (1) Charge DI Water in main vessel while stirring.
- (2) Add Item # 2 and continue mixing for 2 - 3 minutes or until smooth and homogeneous.
- (3) Add item # 3 to 7 one at a time while mixing, making sure each item is fully dissolved before adding the next.
- (4) Add Item # 8, note that the density of AE CosmoFluor 61 is heavier, make sure to continue mixing all the way to the bottom.
- (5) If a homogenizer is available, transfer to a homogenizer and start homogenizing for 1-2 minutes.
- (6) Transfer to propeller mixer and start mixing at moderate speed.
- (7) Add item # 9 and Item # 10 and continue mixing for 1 minute.

# ACTIVES: AE<sup>®</sup> DPHP

INCI: Dipalmitoyl Hydroxyproline

A powerful anti-aging active targeting a wide range of skin aging signs for a youthful looking skin. AE<sup>®</sup> DPHP is a lipoamino acid obtained by the acylation of palmitic acid on hydroxy-4-proline. It is an amino acid which is essential to the skin and which is known for its moisturizing properties.

**Properties:**

- Self-foaming products provide an exciting multi-sensory experience
- Fast drying action provides a wide range of applications
- Alcohol replacement
- Stable in emulsions
- Excellent (fanatical) foam booster
- Safe, non-VOC

Sample Formulation 1:

## Instant Lip Plumping and Softening Balm

	Raw Materials	Supplier	INCI Name	% (Wt)
<b>Phase 1</b>				
1	Petrolatum		Petrolatum	63.6900
2	AE <sup>®</sup> Yellow Beeswax	AE Chemie	Cera Alba (Beeswax)	6.0000
3	Candelilla Wax		Euphorbia Cerifera (Candelilla) Wax	2.0000
4	Carnauba Wax		Copernicia Cerifera (Carnauba) Wax	2.0000
<b>Phase 2</b>				
5	Bikira <sup>®</sup> Mongongo Butter	AE Chemie	Schinziophyton Rautanenii Kernel Butter	25.0000
6	AE <sup>®</sup> DPHP	AE Chemie	Dipalmitoyl Hydroxyproline	1.0000
7	Vitamin E	AE Chemie	Tocopherol	.1000
8	Fullerene	AE Chemie	Fullerene	.2000
				100.0000

**Procedure:**

1. Heat Phase 1 to 70°C and mix for 1 minute or until clear.
2. Add Phase 2 one at a time @ 60 - 65°C with gentle stirring.
3. While still at liquid form, pour into your Lip Balm Tube and let it cool or until it solidify.

**Properties:**

Translucent yellowish in color

Sample Formulation 2:

## Multi-Action Eye Firming Cream

Item	Raw Materials	Supplier	INCI Name	% (Wt)
<b>Phase A</b>				
1	Deionized Water		Water	80.2000
2	Niacinamide		Niacinamide	1.0000
<b>Phase B</b>				
3	Emulsipure <sup>®</sup> Marula	AE Chemie	Cetearyl Glucoside, Glyceryl Stearate, Sclerocarya Birrea Seed Oil	6.0000
4	AE <sup>®</sup> SIL-10	AE Chemie	Sclerocarya Birrea Seed Oil and Tetradecane	2.5000
5	Bikira <sup>®</sup> Marula Oil	AE Chemie	Sclerocarya Birrea Seed Oil	3.0000
6	Bikira <sup>®</sup> Coconut Oil	AE Chemie	Cocos Nucifera (Coconut) Oil	2.0000
7	AE Tri-ACT PME <sup>®</sup>	AE Chemie	Caprylyl Glycol, Ethylhexylglycerine, Undecylenoyl Glycine and Capryloyl Glycine	1.3000
8	AE <sup>®</sup> DPHP	AE Chemie	Dipalmitoyl Hydroxyproline	1.0000
<b>Phase C</b>				
9	AE <sup>®</sup> Glycein	AE Chemie	Glycerin	1.0000
10	AE <sup>®</sup> Inulin	AE Chemie	Inulin	0.2000
<b>Phase D</b>				
11	Fragrance			0.3000
12	Fullerene	AE Chemie/	Fullerene	0.5000
13	AE Sodium Hyaluronate 1%	AE Chemie	Sodium Hyaluronate	1.0000
			<b>TOTAL</b>	<b>100.0000</b>

**Procedure:**

1. Phase A: Heat Item #1 and #2 to 70°C in main vessel.
2. Phase B: Heat Items #3 - #8 in a separate beaker to 70°C until fully melted.
3. Phase C: In a separate beaker mix item #9 and #10.
4. Add Phase B to Phase A under homogenization for 5 minutes.
5. Add Phase C and continue homogenizing for 2-3 minutes.
6. Transfer to anchor propeller mixer and start cooling to 40°C while mixing at low speed (85-100 rpm).
7. At 40°C, add Items #11 - #13 one at time while mixing until homogeneous.

**Result:**

pH = (as is @ 25C)  
Viscosity = cps (as is @25C, Spindle 04 @20rpm) Brookfield Viscometer RVDV-I Prime



# ESTERS

## AE Sil<sup>®</sup>-10 & 12

INCI 10: Sclerocarya Birrea Seed Oil (and) Tetradecane  
 INCI 12: Sclerocarya Birrea Seed Oil (and) Tetradecane

AE<sup>™</sup> Sil<sup>®</sup> are 100% vegetable derived, renewably sourced, alternative to fluid silicone (D4 & D5). They have quick evaporation without VOC, pleasant dry after-feel comparable to silicones and all lipophilic ingredients. They also have excellent spreadability and are stable against oxidation. They have minimal irritation potential and non-palm derived.

### Physical and Chemical Data Appearance:

Clear, transparent to slightly translucent liquid

### Color:

Colorless to light yellow

### Odor:

Slight, characteristic

### Density at 20°C:

0.770 - 0.800g/ml [AE<sup>™</sup>Sil<sup>®</sup>-10]

0.770 - 0.850g/ml [AE<sup>™</sup>Sil<sup>®</sup>-12]

### Solubility:

Soluble: in mineral and vegetable oils, alcohol

Insoluble: In water, glycerin, glycols



### Microbiological data:

Bacteria: < 100 cfu/g

Yeasts and molds: < 100 cfu/g



### AE<sup>®</sup> Sil - 10

INCI: Sclerocarya Birrea Seed Oil and Tetradecane  
 Non-polar emollient derived from Marula seed oil (Sclerocarya Birrea) mixed with vegetable-derived Tetradecane to give the properties of light silicone oil. A blend of vegetable derived materials to obtain functional biodegradable emollient. Similar feel, inexpensive substitute to Squalane.



### AE<sup>®</sup> Sil - 12

INCI: Sclerocarya Birrea Seed Oil and Tetradecane  
 Non-polar emollient derived from Marula seed oil (Sclerocarya Birrea) mixed with vegetable-derived Tetradecane to give the properties of light silicone oil. A blend of vegetable derived materials to obtain functional biodegradable emollient. Similar feel, inexpensive substitute to Squalane. Higher emolliency than AE<sup>™</sup> Sil<sup>®</sup>-10.

### Sample Formulation 1:

## Hydrating Magical Elixir and Skin Oil

Item	Raw Materials	Supplier	INCI Name	% (Wt)
1	AE Sil <sup>®</sup> -12	AE Chemie	Sclerocarya Birrea Seed Oil and Tetradecane	63.8000
2	AE <sup>®</sup> Ester 99	AE Chemie	Isononyl Isononanoate	15.0000
3	Fullerene	AE Chemie	Fullerene	1.0000
4	Bikira <sup>®</sup> Marula Oil	AE Chemie	Sclerocarya Birrea Seed Oil	5.0000
5	Bikira <sup>®</sup> Argan Oil	AE Chemie	Argania Spinosa Kernel Oil	10.0000
6	Bikira <sup>®</sup> Hempseed oil	AE Chemie	Cannabis Sativa (Seed) Oil	5.0000
7	Vitamin E	AE Chemie	Tocopherol	.2000
				100.0000

### Procedure:

1. Charge item #1 in the main vessel.
2. Add Items #2 - #7 one at time while mixing until homogeneous.
3. Continue mixing until clear.

### Properties:

Pale to greenish yellow

# Natural AecoPuree

AECOPUREE™ are a collection of natural plant purees which come straight from mother Nature and is the perfect balance between all natural and real performance.

Use levels 1.0% - 80%



AECOPUREE® Purple Yam

INCI: Dioscorea Villosa (Wild Yam) Root Extract  
Purple Yam Puree comes straight from Mother Nature and is the perfect balance between all-natural and real performance. Contains Vitamins which boosts collagen and helps to reduce wrinkles. Rich in amino acids which supply nutrients to nourish the skin, hair and nails.



AECOPUREE® Cranberry

INCI: Vaccinium Macrocarpon (Cranberry) Fruit  
Polyphenols (catechin, quercetin and myricetin) found in cranberries help repair damaged skin and restore elasticity to aging skin. It contains a very high essential fatty acid profile, along with a good mix of tocopherols and tocotrienols (vitamin E) content.



AECOPUREE® Pumpkin

INCI: Cucurbita Pepo (Pumpkin) Fruit  
A natural "fruitful" approach to beautiful skin; deliver the nutrients found in fruits which are known to promote the growth of cells, hydrate, alleviate the discomfort of dry skin, reduce the appearance of redness, irritation and signs of aging. Add the natural benefit from fruits to creams, lotions, face masks, scrubs, etc.



AECOPUREE® Sweet Potato

INCI: Ipomoea Batatas Tuber Extract  
Sweet Potato Puree comes straight from Mother Nature and is the perfect balance between all-natural and real performance. It is rich in Vitamins A, C & E for anti-oxidant protection and healthy radiant skin. Contains enzymes to exfoliate & slough off dead skin cells promoting cell renewal for smooth skin.



AECOPUREE® Cucumber

INCI: Cucumis Sativus (Cucumber) Fruit  
A revolutionary benefit of Cucumber Puree comes straight from Mother Nature and is the perfect balance between all-natural and real performance. No added fillers. AECOPUREE® Cucumber is an exceptional skin moisturizer. Cucumber keeps the enzyme hyaluronidase from degrading hyaluronic acid, a natural substance in the body which helps draw moisture to the skin.



AECOPUREE® Avocado

INCI: Persea Gratissima Fruit Extract  
Aecopuree Avocado can deeply penetrate the skin to nourish, soften and hydrate

AECOPUREE® Chayote

INCI: Sechium Edule Fruit Extract  
Aecopuree Chayote contains several antioxidants, including vitamin C, which may contribute to youthful-looking skin and reduce visible signs of aging.

Sample Formulation 1:

## AecoPuree Pumpkin Enzymatic Calming Night Mask

Item	Raw Materials	Supplier	INCI Name	% (Wt)
<b>Phase 1</b>				
1	DI Water		Water	67.3000
2	Niacinamide		Niacinamide	1.0000
3	AE® Glycerin	AE Chemie	Glycerin	1.0000
<b>Phase 2</b>				
4	Emulsipure® Sunflower	AE Chemie	Cetearyl Glucoside, Glyceryl Stearate, Helianthus Annuus (Sunflower) Seed Oil	8.0000
5	Bikira® Sunflower Oil	AE Chemie	Helianthus Annuus (Sunflower) Seed Oil	2.0000
6	Roman Chamomile Essential Oil	AE Chemie	Anthemis Nobilis (Roman Chamomile) Oil	1.0000
7	Melatonin		Melatonin	.3000
8	Bikira® Coconut Oil RBD	AE Chemie	Cocos Nucifera (Coconut) Oil	1.000
<b>Phase 3</b>				
9	AE Tri-Act PME®	AE Chemie	Caprylyl Glycol, Ethylhexylglycerine, Undecylenoyl Glycine and Capryloyl Glycine	1.3000
10	AecoPuree® Pumpkin w/ Enzyme	AE Chemie	Cucurbita Pepo (Pumpkin) Fruit	15.0000
11	AE® Sodium Hyaluronate 1%	AE Chemie	Sodium Hyaluronate	1.0000
12	Fragrance			.3000
13	Emulgel AE® CVHE	AE Chemie	Polyquaternium 37 and Propylene Glycol Dicaprylate/Dicaprate and PPG-1 Trideceth 6	.8000
				100.0000

### Procedure:

1. Phase A. Mix item # 1 - # 3 (in a beaker) then heat to 70°C. (Water Phase)
2. Phase B. Heat # 4 - # 8 (in a beaker) to 70°C or until fully melted. (Oil Phase)
3. Add Phase B to Phase A under homogenization for 5 minutes or until Homogeneous.
4. Phase C: Add item # 9 - # 13 one at a time at 40°C.
5. Continue mixing under propeller mixer for 3-5 minutes or until Homogeneous.

### Result:

- Creamy Viscous Liquid
- Light Yellow to Golden Yellow
- pH: 6.1 (as-is)
- Viscosity = 19,200cps (as is @25C, Spindle 05 @20rpm) Brookfield Viscometer RVDV-I Prime

# AE® Tamarindus

INCI: Tamarindus Indica (Tamarind) Fruit Extract

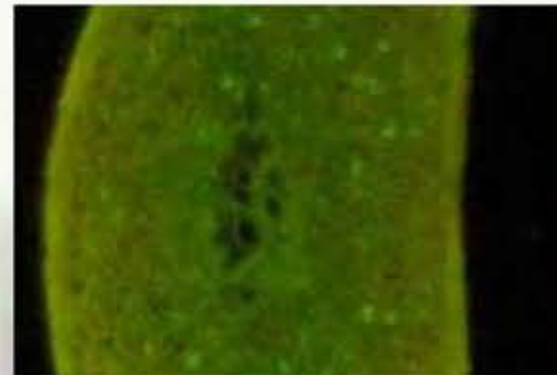
AE Tamarindus is extracted from the fruit of Tamarindus Indica. The fruit, Tamarind, is an elongate pod of 5 to 15 cm long with a dark brown bark, woody and brittle. The seeds grow in numbers from 3 to 8 and are surrounded by a dark and acidic pulp which contains sugars (33%), tartaric acid (11%), acetic acid, oxalic acid and citric acid.

## Properties:

- Natural Moisturizer
- Hair and skin Anti-Oxidant
- Maintenance and treatment of chemically processed hair
- Color Protection
- Coats hair surface
- Improving shine and cohesion



H2O



1% AE® Tamarindus

Sample Formulation:

## Hair Repair Conditioning Spray Mist

Item	Raw Materials	Supplier	INCI Name	% (Wt)
1	Deionized Water			92.9000
2	Fullerene	AE Chemie	Fullerene	1.0000
3	AE® Tamarindus	AE Chemie	Tamarindus Indica (Tamarind) Fruit Extract	2.0000
4	Aloe Vera Extract	AE Chemie	Aloe Barbadensis Leaf Juice	1.0000
5	D-Panthenol		Panthenol	1.0000
6	Bio Restore	AE Chemie / Kimika LLC	Hydrolized Wheat Protein, Methicone, Polyquaternium-10, Carbocysteine	0.3000
7	Proqueratin	AE Chemie / Kimika LLC	Hydrolized Wheat Protein (and) Hydrolized Soy Protein (and) Carbocysteine (and) Threonine (and) Serine (and) Glutamic Acid	0.5000
8	AE Preserve® PX82	AE Chemie	Musa Sapientum (Banana) Leaf/Trunk Extract	1.3000
				100.0000

## Procedure:

1. Charge Item # 1 in the main vessel.
2. Add the rest of the ingredients one at a time and mix until clear and homogeneous.
3. Transfer to a spray bottle or to you preferred container.

## Result:

pH: 4.1  
Clear Liquid Mist

# æ chemie Product Listing

## Bikira® Oils

Product Name	INCI	Description
BIKIRA® ARGAN OIL	Argania Spinosa Kernel Oil	Light, easily absorbed oil with powerful anti-aging and moisturization properties
BIKIRA® BAOBAB OIL	Adansonia Digitata (Baobab) Seed Oil	Cold-pressed oil that provides intensive moisturization for skin care and hair care treatments.
BIKIRA® CHERRY COFFEE OIL	Coffea Arabica (Coffee) Seed Oil	Extracted from Cherry Coffee, rich in Anti-Oxidant, anti-aging, anti-inflammatory, and soothing skin softening property.
BIKIRA® COCONUT OIL	Cocos Nucifera (Coconut) Oil	Rich in Lauric acid and other saturated fatty acids with natural property for healthy looking skin.
BIKIRA® CRANBERRY OIL	Vaccinium Macrocarpon (Cranberry) Seed Oil	Organic Cranberry Oil rich in nutrients, Omega 3, 6 & 9 and fatty acids.
BIKIRA® GREEN COFFEE OIL	Coffea Arabica (Coffee) Seed Oil	Extracted from green coffee, rich in phytosterols, polyphenol and Gamma-aminobutyric acid.
BIKIRA® HEMPSEED OIL	Cannabis Sativa (Seed) Oil	Rich in vitamins, nutrients and essential fatty acids. Provide Hair strengthening & cleansing. Beneficial for hair & skin moisturization.
BIKIRA® KALAHARI MELON OIL	Citrullus Lanatus (Watermelon) Seed Oil	A stable moisturizing and repairing oil with high level of Omega-6 (Linoleic acid) for skin and hair care applications
BIKIRA® MARULA OIL	Sclerocarya Birrea Seed Oil	BIKIRA® Marula Oil is rich in antioxidants (Vitamin C, E, tocotrienol, phenolic compounds, amino acids, and flavonoids) which help in cell renewal.
BIKIRA® MEADOWFOAM OIL	Limnanthes Alba (Meadowfoam) Seed Oil	BIKIRA® Meadowfoam Oil that provides moisture and leaves skin feeling supple and soft. Meadow foam Seed Oil enhanced provides moisture skin.
BIKIRA® MONGONGO OIL	Schinziophyton Rautanenii Kernel Oil	High active ingredient use on UV/Heat activated polymerizing oil for hair care (straightening & anti-frizz) and skin care applications.
BIKIRA® MORINGA OIL	Moringa Oleifera Seed Oil	Powerful anti-inflammatory, resists aging oil with excellent antioxidant properties to clarify uneven tone, target stubborn spots and soothe irritation.
BIKIRA® OLIVE OIL	Olea Europaea (Olive) Fruit Oil	Wild Mediterranean Olive Oil. Easily absorbed with a high content of polyphenols.
BIKIRA® SUNFLOWER OIL	Helianthus Annuus (Sunflower) Seed Oil	Super emollient oil with excellent moisturizing and conditioning properties; particularly recommended for skin and hair
BIKIRA® XIMENIA OIL	Ximenia Americana Seed Oil	Rich, nourishing and moisturizing natural oil suitable for hair, skin and baby care products. Normalizes sebaceous function.
BIKIRA® KARANJA OIL	Pongamia Glabra Seed Oil	Moisturizing, natural oil from Karanja, rich in vitamins, nutrients and essential fatty acids. It has a natural sun protection boosting property.
Bikira® JAMBU EXTRACT CONCENTRATE	Spilanthes Acmella Flower/Leaf/Stem Extract	Jambu extract concentrate, powerful anti-age, anesthetic, a powerful anesthetic for pain and has antioxidant properties.

## Bikira® Butters

Product Name	INCI	Description
BIKIRA BAOBAB BUTTER	Adansonia Digitata Seed Butter	Super emollient butter with excellent moisturizing properties, particularly recommended for skin and hair products.
BIKIRA COCONUT BUTTER	Cocos Nucifera (Coconut) Butter	Super-emollient oil which offers superior oxidative stability, used in skin and hair care for its long lasting moisturization.
BIKIRA CRANBERRY BUTTER	Vaccinium Macrocarpon (Cranberry) Seed Oil	Moisturizing, natural butter from Cranberry oil, rich in antioxidants, Omega 3, Omega 6, and Omega 9.
BIKIRA MEADOWFOAM BUTTER	Limnanthes Alba (Meadowfoam) Seed Oil	Moisturizing natural butter from Meadowfoam Seed Oil, rich in vitamins, nutrients for skin and hair care.
BIKIRA® ARGAN BUTTER	Argania Spinosa Kernel Butter	BIKIRA® Argan Butter is highly nutritional for the skin and extraordinarily stable Moisturizing natural butter from Argan nut.
BIKIRA® AVOCADO BUTTER	Persea Gratissima (Avocado) Butter	BIKIRA® Avocado Butter is an ivory creamy and soft butter that has excellent penetrating properties.
BIKIRA® CHERRY COFFEE BUTTER	Coffea Arabica (Coffee) Butter	BIKIRA® Cherry Coffee Butter is a creamy butter with dark brown to caramel brown in color. It has a pleasant roasted coffee scent and an excellent melting point.
BIKIRA® GREEN COFFEE BUTTER	Coffea Arabica (Coffee) Butter	BIKIRA® Green Coffee Butter is created by using a proprietary process to produce a buttery material that is exceptionally rich in antioxidants.
BIKIRA® HEMPSEED BUTTER	Cannabis Sativa Seed Butter	Hempseed Butter is produced from one of the world's most nutritious seeds containing significant amounts of amino acids methionine.
BIKIRA® MARULA BUTTER	Sclerocarya Birrea Seed Butter	Moisturizing natural butter from Marula nuts which is rich in antioxidants, Omega 9 and Omega 6.
BIKIRA® MONGONGO BUTTER	Schinziophyton Rautanenii Kernel Butter	Plant-derived, vegetal based, Non GMO, moisturizing natural butter from Mongongo nut which is rich in polyunsaturated fatty acids.
BIKIRA® MORINGA BUTTER	Moringa Oleifera Seed Butter	BIKIRA® Moringa Butter is a solid low melting point butter that provides excellent skin moisturization and high skin protection against pollution.
BIKIRA® OLIVE BUTTER	Olive Europaea (Olive) Fruit Butter	BIKIRA® Olive Butter retains the moisturizing and antioxidant properties of olive oil and has similar deep moisturizing and nourishing qualities.
BIKIRA® XIMENIA BUTTER	Ximenia Americana Seed Butter	BIKIRA® Ximenia Butter contains a profile of important vitamins, beta-carotene and various actives.
BIKIRA® KARANJA BUTTER	Pongamia Glabra Seed Butter and Coconut Alkanes	Moisturizing, natural oil from Karanja, rich in vitamins, nutrients and essential fatty acids. It has a natural sun protection boosting property.

## AE® Cosmofluor

Product Name	INCI	Description
AE COSMOFLUOR® 61	Methyl Perfluorobutyl Ether and Methyl Perfluoroisobutyl Ether	Self-foaming agent when combined with surfactants. Fast drying compound without VOC.
AE COSMOFLUOR® 76	Ethyl Perfluorobutyl Ether and Ethyl Perfluoroisobutyl Ether	Enhances blooming performance of fragrance. Volatile, fast drying flourinated compounds for cosmetic applications.

## Surfactants

Product Name	INCI	Description
AECOSOFT® ALM	Arginine Lauroyl Glutamate	Aecosolv® ALM is L-Arginine rich, sulfate-free amino acid based surfactant with gentle cleansing.
AECOSOFT® ARGAN	Lauryl Glucoside, Argania Spinosa Kernel Oil	AECOSOFT® Argan (neutralized) is a gentle APG surfactant, derived from organically grown, non GMO Argan Oil (Argania Spinosa).
AECOSOFT® AVOCADO	Lauryl Glucoside and Persea Gratissima (Avocado) Oil	AECOSOFT® Avocado is excellent for personal care to promote healthier skin & hair, and has good cleansing ability and rich foaming properties.
AECOSOFT® CHERRY COFFEE (Neutralized)	Lauryl Glucoside (and) Coffea Arabica (Coffee) Seed Oil (and) Water	AECOSOFT® Cherry Coffee (Neutralized) is a rich in antioxidants, which reduces the damaging effects of free radicals in our body.
AECOSOFT® CHERRY COFFEE (Unneutralized)	Lauryl Glucoside (and) Coffea Arabica (Coffee) Seed Oil (and) Water	AECOSOFT® Cherry Coffee (Unneutralized) It is a gentle surfactant with good cleansing ability and nice foaming properties.
AECOSOFT® GREEN COFFEE (Neutralized)	Lauryl Glucoside (and) Coffea Arabica (Coffee) Seed Oil (and) Water	AECOSOFT® Green Coffee (Neutralized) is a gentle APG surfactant, derived from organically grown, non GMO GREEN COFFEE (Coffea Arabica).
AECOSOFT® GREEN COFFEE (Unneutralized)	Lauryl Glucoside (and) Coffea Arabica (Coffee) Seed Oil (and) Water	AECOSOFT® Green Coffee (Unneutralized) is a gentle APG surfactant, derived from organically grown, non GMO GREEN COFFEE (Coffea Arabica).
AECOSOFT® HEMPSEED (Neutralized)	Lauryl Glucoside (and) Cannabis Sativa Seed Oil (and) Water	AECOSOFT® Hempseed (neutralized) is a non-ionic surfactant that utilizes the beneficial properties of Hempseed Oil especially rich in Omega-3 & 6.
AECOSOFT® LLM	Lysine Lauryl Glutamate	L-Lysine rich, sulfate-free, amino acid based surfactant with gentle cleansing.
AECOSOFT® MARULA (Neutralized)	Lauryl Glucoside (and) Sclerocarya Birea Seed Oil (and) Water	AECOSOFT® Marula (neutralized) is a mild surfactant which has the beneficial properties of Marula Oil: nourishing, moisturizing, antioxidant, and anti-radicals.
AECOSOFT® MARULA (Unneutralized)	Lauryl Glucoside (and) Sclerocarya Birea Seed Oil (and) Water	AECOSOFT® Marula (unneutralized) has good cleansing ability and nice foaming properties with non-drying and non-irritating effects.
AECOSOFT® MEADOWFOAM	Lauryl Glucoside (and) Limnanthes Alba (Meadowfoam) Seed Oil (and) Water	AECOSOFT® Meadowfoam is a natural, gentle and non-irritating and non-ionic surfactant.
AECOSOFT® MORINGA (Neutralized)	Lauryl Glucoside (and) Moringa Oleifera Seed Oil (and) Water	AECOSOFT® Moringa (neutralized) an excellent humectant and a non-drying and non-irritating surfactant, completely biodegradable.
AECOSOFT® MORINGA (Unneutralized)	Lauryl Glucoside (and) Moringa Oleifera Seed Oil (and) Water	AECOSOFT® Moringa (unneutralized) is a gentle APG surfactant, derived from organically grown, non GMO Moringa Oil (Moringa Oleifera).
AECOSOFT® OLIVE (Neutralized)	Lauryl Glucoside (and) Olea Europaea (Olive) Fruit Oil (and) Water	AECOSOLV® Olive-N (neutralized) is a versatile solubilizer to incorporate a wide range of lipophilic ingredients into clear formulations.
AECOSOFT® OLIVE (Unneutralized)	Lauryl Glucoside (and) Olea Europaea (Olive) Fruit Oil (and) Water	AECOSOLV® Olive (unneutralized) is a versatile solubilizer to incorporate a wide range of lipophilic ingredients into clear formulations.
AECOSOFT® SUNFLOWER	Lauryl Glucoside (and) Helianthus Annuus (Sunflower) Seed Oil (and) Water	AECOSOFT® Sunflower (neutralized) is a rich emollient surfactant and it can be considered a valid alternative to coco and palm derivatives for its affordable price.
AECOSOFT® SUNFLOWER (Unneutralized)	Lauryl Glucoside (and) Helianthus Annuus (Sunflower) Seed Oil (and) Water	AECOSOFT® Sunflower (unneutralized) is a non-GMO and mild APG surfactant derived from Sunflower Oil.
LUMOROL K 5019	Disodium Laureth Sulfosuccinate (and) Sodium Lauryl Sulfoacetate	Lumorol K 5019 is a combination of mild anionic surfactants blend for the formulation of bath preparations, hair shampoos, liquid body cleansing agents.
LUMOROL K 5303	Sodium Lauroyl Sarcosinate and Sodium Lauryl Sulfoacetate	Surfactant blend for the formulation of bath preparations, hair shampoos, liquid body cleansing agents.

PROTELAN AGL 95	Sodium Lauroyl Glutamate	PROTELAN AGL 95 is based on vegetable raw materials and free of preservatives. Best formulation of bath preparations and hair shampoos.
PROTELAN AGL 95/C	Sodium Cocoyl Glutamate	PROTELAN AGL 95/C is vegetable raw materials and free of preservatives. The basic material for the formulation of bath and hair shampoos.
PROTELAN LS 9011	Sodium Lauroyl Sarcosinate	Basic material for the formulation of hair shampoos and body cleaning agents.
SETACIN 103 SPEZIAL	Disodium Laureth Sulfosuccinate	The basic material for the formulation of bath preparations, hair shampoos, and different types of cleaning agents.

## Solubilizers

Product Name	INCI	Description
AECOSOLV® Olive (Neutralized)	Sodium Oliviate	AECOSOLV® Olive-N (neutralized) is 100% naturally derived and a versatile solubilizer designed to incorporate a wide range of lipophilic ingredients into clear formulations.
AECOSOLV® Olive (Unneutralized)	Sodium Oliviate	AECOSOLV® Olive (unneutralized) can be used on the most sensitive of skin types (gel, alcohol, cleansing solutions or detergent systems) without affecting foaming properties.
AECOSOLV® Sunflower (Neutralized)	Sodium Sunflowerseedate	Aecosolv® Sunflower is an Oil/Fragrance Solubilizer no tacky or sticky after feel, gentle on skin, counter irritancy benefit.
AECOSOLV® Sunflower (Unneutralized)	Sodium Sunflowerseedate	Aecosolv® Sunflower is an Oil/Fragrance Solubilizer gentle on skin, counter irritancy benefit, does not affect foaming.

## Natural Puree

Product Name	INCI	Description
AECOPUREE® CRANBERRY	Vaccinium Macrocarpon (Cranberry) Fruit	Polyphenols (catechin, quercetin and myricetin) found in cranberries help repair damaged skin and restore elasticity to aging skin.
AECOPUREE® CUCUMBER	Cucumis Sativus (Cucumber) Fruit	A revolutionary benefit of Cucumber Puree comes straight from Mother Nature and is the perfect balance between all-natural and real performance. No added fillers.
AECOPUREE® PUMPKIN	Cucurbita Pepo (Pumpkin) Fruit	A natural "fruitful" approach to beautiful skin; deliver the nutrients found in fruits to promote the growth of cells, hydrate, alleviate the discomfort of dry skin.
AECOPUREE® PURPLE YAM	Dioscorea Villosa (Wild Yam) Root Extract	Contains Vitamins which boosts collagen and helps to reduce wrinkles. Rich in amino acids which supply nutrients to nourish the skin, hair and nails.
AECOPUREE® SWEET POTATO	Ipomoea Batatas Tuber Extract	It is rich in Vitamins A, C & E for anti-oxidant protection and healthy radiant skin. Contains enzymes to exfoliate & slough off dead skin cells.
AECOPUREE® CHAYOTE	Sechium Edule Fruit Extract	Aecopuree Chayote contains several antioxidants, including vitamin C, which may contribute to youthful-looking skin and reduce visible signs of aging.
AECOPUREE® AVOCADO	Persea Gratissima Fruit Extract	Aecopuree Avocado can deeply penetrate the skin to nourish, soften and hydrate.

## Emulsipure Emulsifiers

Product Name	INCI	Description
EMULSIFLOW EXE®	Citrus Aurantium Sinenses (Orange) Extract, Cetearyl Alcohol, Glyceryl Stearate, Sodium Lauroyl Glutamate	All-natural O/W emulsifier/ stabilizer for sprayable emulsions, liquid crystal formation with excellent moisturizing efficacy.
EMULSIPURE® ARGAN	Cetearyl Glucoside, Glyceryl Stearate and Argania Spinosa Kernel Oil	EmulsiPure® Argan is an all natural ingredient to be used in personal care products for emulsifying, suspending and thickening.
EMULSIPURE® CHERRY COFFEE	Cetearyl Glucoside, Glyceryl Stearate, Coffea Arabica (Coffee) Seed Oil	EmulsiPure® Cherry Coffee is completely vegetable, Rich in Chlorogenic Acids, glucids, pectins, minerals, and protein.
EMULSIPURE® GREEN COFFEE	Cetearyl Glucoside, Glyceryl Stearate, Coffea Arabica (Coffee) Seed Oil	EmulsiPure® Green Coffee is an all natural emulsifier that uses virgin cold press green coffee oil that are rich in Anti-Oxidants (ORAC® Value = 2500).
EMULSIPURE® HEMPSEED	Cetearyl Glucoside, Glyceryl Stearate, Cannabis Sativa Oil	EmulsiPure® Hempseed is an all natural emulsifier, moisturizing, natural oil from Hempseed, rich in vitamins and nutrients.
EMULSIPURE® MARULA	Cetearyl Glucoside, Glyceryl Stearate, Sclerocarya Birrea Seed Oil	EmulsiPure® Marula is an all natural emulsifier that increased hydration/smoothness, reduced appearance of fine lines, wrinkles and redness.
EMULSIPURE® MEADOWFOAM	Cetearyl Glucoside, Glyceryl Stearate, Limnanthes Alba (Meadowfoam) Seed Oil	All-natural O/W emulsifier to make creams, lotions, and /or sprayable low viscosity liquid crystal emulsions.
EMULSIPURE® MORINGA	Cetearyl Glucoside, Glyceryl Stearate, Moringa Oleifera Seed Oil	EmulsiPure® Moringa is an all natural emulsifier with Antioxidant Vitamins A & E prevent formation of the radicals causes premature aging.
EMULSIPURE® OLIVE	Cetearyl Glucoside, Glyceryl Stearate, Olea Europaea (Olive) Fruit Oil	EmulsiPure® Olive is an all natural emulsifier, an organic cold-pressed oil that provides intensive moisturization for skin and hair care treatments.
EMULSIPURE® RTCE	Behentrimonium Chloride (and) Cetearyl Alcohol (and) Glyceryl Stearate (and) Lauryl Glucoside (and) Olea Europaea (Olive) Fruit Oil	EmulsiPure® RTCE is a multi-functional: Cationic Emulsifier, thickener & stabilizer that works at room temperature and/or heated systems.
EMULSIPURE® RTE	Glyceryl Stearate (and) Cetearyl Alcohol (and) Sodium Olivatate (and) Inulin	In powder form, it is biodegradable and 100% vegetable origin. Room temperature processable oil-in-water emulsifier as well as heated process.
EMULSIPURE® SUNFLOWER	Cetearyl Glucoside, Glyceryl Stearate, Helianthus Annuus (Sunflower) Seed Oil	EmulsiPure® Sunflower is an all natural ingredient to be used in personal care products for emulsifying, suspending and thickening.
OXETAL VD 92	PEG-90 Glyceryl Isostearate (and) Laureth-2	Versatile thickener/stabilizer for surfactant/foaming formulations

## Sensory Ingredients

Product Name	INCI	Description
AE CHEMIEKOOL ML®	Menthyl Lactate	Active Cooling Agent (Powder)
AE® HEAT SENSE VBE	Vanillyl Butyl Ether	Warming agent with low irritancy and long lasting warming sensation

## Preservatives

Product Name	INCI	Description
AE PHENOXY™	Phenoxyethanol	Excellent preservative in cosmetics and pharmaceuticals. Less toxic and non-reactive with copper and lead.
AE PRESERVAPURE™	Phenoxyethanol, Capryloyl Glycine and Undecylenoyl Glycine	AE PreservaPure® effectively reduces the surface tension of water thus the wetting of surfaces is improved.
AE PRESERVE™ CG	Caprylyl Glycol	Preservative booster, moisturizer, emollient with some antimicrobial activity.
AE PRESERVE™ E 247	Phenylethyl Alcohol, Caprylyl Glycol, Ethylhexylglycerin and Propanediol	Non-Phenoxyethanol and Non-Paraben Preservative for cosmetics and toiletries.
AE PRESERVE™ EHG	Ethylhexylglycerin	Preservative booster, moisturizer, emollient; versatile, multifunctional additive with antimicrobial efficacy.
AE PRESERVE™ PC	Phenethyl Alcohol and Caprylhydroxamic Acid	AE Preserve® PC a broad spectrum efficacy against Gram +, Gram -, Yeast and Fungi. It is plant derived, Glycol free.
AE PRESERVE™ PCG	Phenethyl Alcohol, Glycerin, Caprylhydroxamic Acid	AE Preserve® PCG an all natural effective mixture of phenethyl alcohol, Glycerin and Caprylhydroxamic acid.
AE PRESERVE™ PX-100	Musa Sapientum (Banana) Leaf/Trunk Extract	AE Preserve® PX-100, a maximum strength plant extract largely coming from musa sapientum in liquid form, is rich in earth substances and minerals.
AE PRESERVE™ PX-82	Musa Sapientum (Banana) Leaf/Trunk Extract	AE Preserve® PX-82 is a concentrated plant extract rich in bioactive compounds such as flavonoids, tannins, alkaloids, glycosides, and terpenoids.
AE PRESERVE™ WPC	Phenethyl Alcohol, Caprylyl Glycol and Ethylhexylglycerin	AE Preserve® WPC has a broad spectrum efficacy against Gram Positive, Gram Negative, Yeast, and Fungi.
AE PROTEK™ NPB	Phenoxyethanol and Ethylhexylglycerin	AE ProTek® NPB has efficacy booster and stabilizer for antimicrobials in combination with other ingredients.
AE PROTEK™ PLUS	Phenoxyethanol and Ethylhexylglycerin	AE ProTek® Plus a broad spectrum cosmetic preservative with efficacy booster for antimicrobials and antimicrobials stabilizer.
AE PUREPROTEK™	Capryloyl Glycine and Undecylenoyl Glycine	AE PureProTek® has makes the mixture effective in penetration of the cell membrane of microorganism resulting to optimized anti-microbial efficacy.
AE TRI-ACT PME™	Caprylyl Glycol, Ethylhexylglycerine, Undecylenoyl Glycine and Capryloyl Glycine	AE Tri-Act PME®- a natural sourced preservative used as an alternative to Parabens and Phenoxyethanol.

## Bar Base

Product Name	INCI	Description
CGS BAR BASE	Sodium Lauroyl Sarcosinate, Propanediol, Glycerin, Sorbitol, Alkyl Glucoside, and Sodium Octadecanoate	Clear, glycol-free, sulfate-free and clear cleansing bar-base
MARULA BAR SOAP BASE	Sclerocarya Birrea (Marula) Glucoside, Sodium Lauroyl Sarcosinate, Sodium C14-15 Olefin Sulfonate, Propanediol, Glycerine, Sorbitol, Sodium Octadecanoate	Clear, glycol-free, sulfate-free and TEA-free cleansing bar base with moisturizing Marula Oil.
MEDICATED CGS BAR BASE	Sclerocarya Birrea (Marula) Glucoside, Sodium Lauroyl Sarcosinate, Sodium C14-15 Olefin Sulfonate, Propanediol, Glycerine, Sorbitol, Sodium Octadecanoate. Active Ingredient: Salicylic Acid	Clear, glycol-free, sulfate-free and TEA-free cleansing bar base with Salicylic Acid.

## Actives

Product Name	INCI	Description
ADVANCED BTX	Perfluorohexane, Perfluoroperhydrophenantrene, Perfluorodecalin	Advance anti-wrinkle oxygen delivery, instantly helps evens out skin wrinkles by rebuilding the skin texture especially to unsightly under bags and sagging jaw lines.
AE® C8G	Capryloyl Glycine	Moisturizing Lipo-amino acid. Skin acidifier. Antimicrobial.
AE® DPHP	Dipalmitoyl Hydroxyproline	Anti-aging active. Promotes collagen and elastin production and inhibits free-radical activity.
AE® SODIUM HYALURONATE 1%	Sodium Hyaluronate	This reduces dryness and flaking by increasing skin hydration.
AE® UG	Undecylenoyl Glycine	Moisturizing Lipo-amino acid. Skin acidifier. Antimicrobial.
AE® VCE	Ethyl Ascorbyl Acid	Vitamin C Ester
AE® VITAMIN C POWDER TO LIQUID	Water, L-Ascorbic Acid, Silica	Stable Vitamin C that liquifies on contact
AE CHEMIEKOOL® PLUS	Menthyl Lactate and Mentha Haplocalix Extract	Active Cooling Agent (Liquid)
PROENZYME CALCIUM	Saccharomyces/Calcium Ferment	Bio-available, low molecular weight calcium peptide
PROENZYME COPPER	Saccharomyces/Copper Ferment	Bio-available, low molecular weight copper peptide
PROENZYME MAGNESIUM	Saccharomyces/Magnesium Ferment	Bio-available, low molecular weight magnesium peptide
PROENZYME MANGANESE	Saccharomyces/Manganese Ferment	Bio-available, low molecular weight manganese peptide
PROENZYME SELENIUM	Saccharomyces/Selenium Ferment	Bio-available, low molecular weight selenium peptide
PROENZYME TRIO	Saccharomyces/Copper Ferment, Saccharomyces/Manganese Ferment & Saccharomyces/Zinc Ferment	Advanced blend of copper, manganese and zinc peptides
PROENZYME ZINC	Saccharomyces/Zinc Ferment	Bio-available, low molecular weight zinc peptide
AE ENCAP RETINOL 25%	Tapioca Dextrin, Vitamin A (Retinol), Caprylic / Capric Triglyceride	Encap Retinol reduce fine lines and wrinkles by increasing the production of collagen.
AE SALICYLIC ACID	Salicylic Acid	Salicylic acid works best in removing dead skin cells from your pores and cleans out excess oil from pores.

## Skincare

Product Name	INCI	Description
iMOIST HU 50	Hydroxyethyl Urea	iMoist HU 50 is colorless or yellowish clear liquid, it has not simulative. iMoist HU50 can be used in skin care products without imparting stickiness or tackiness to the formulation.

## Esters

Product Name	INCI	Description
AE ESTER® 99	Isononyl Isononanoate	Ester great for skin conditioning that leaves a silky feeling. Rich, velvety and non-greasy feel. Excellent compatibility with silicon oils.
AE ESTER® CCT	Caprylic / Capric Triglyceride	A skin conditioning ester that is naturally vegetal derived from coconut & vegetable oil.
AE ESTER® CE 1688	Cetearyl Ethylhexanoate	Versatile lubricating, conditioning ester for skin & hair care.
AE SiL®10	Sclerocarya Birrea Seed Oil and Tetradecane	AE SiL®-10 AE SiL®-12 are non-polar emollients consisting of Sclerocarya Birrea Seed Oil mixed with vegetable-derived Tetradecane.
AE SiL®12	Sclerocarya Birrea Seed Oil and Tetradecane	AE SiL®-12 offers higher degree of emollience than AE SiL®-10 but both have Squalane-like feel they can be used as cost-effective replacement.
AE SUNBOOST® 1033B	Isodecyl Neopentanoate, Diisopropyl Sebacate, Lauryl Lactate	An optimized mix of esters to boost SPF sunscreen preparations while achieving a non-greasy, elegant feel.
AE ESTER® IPP	Isopropyl Palmitate	It is an emollient, moisturizer, thickening agent, and anti-static agent.
SEBUMOL LPC	Lauryl PCA	SEBUMOL LPC can be used in moisturizing creams and lotions, moisturizing syndet bars, and hair rinse.
SEBUMOL ODPC	Octyldodecyl PCA	SEBUMOL ODPC is a special moisturizing ester for rinse-off formulations e.g. bath and shower oils, moisturizing creams, lotions and syndet bars, hair rinse.
SEBUMOL SPC	Isostearyl PCA	Moisturizing ester to improve after feel in rinse-off products.
AE ESTOSIL 275	Tetradecane and Acetyl Ethylhexyl Polyhydroxystearate	An emollient with enhanced stability properties and exceptional moisturization characteristics.

## Haircare

Product Name	INCI	Description
AE CPO-USP	Ciclopirox Olamine USP	Anti-bacterial, Anti-fungal
AE DPO	Diamino Pyrimidine Oxide	Cosmetic hair growth stimulant
AE DPO-AQUA	Pyrrrolidinyl Diaminopyrimidine Oxide	Cosmetic hair growth stimulant
AE Piroc-O	Piroctone Olamide	Anti-dandruff booster, Anti-bacterial/fungal
AE ZPO 50%	Zinc Pyrithione	Anti-dandruff, Anti-bacterial
AE® TAMARINDUS	Tamarindus Indica (Tamarind) Fruit Extract	AE® Tamarindus is extracted from the fruit of Tamarindus Indica. It is a natural hair and skin moisturizer, hair and skin anti-oxidant.
AE® BIOEX CEREAL	Hydrolyzed Wheat Protein, Hydrolyzed Soy Protein, Avena Sativa (Oat) Meal Extract	Complex of hydrolyzed proteins and peptides for hair smoothing and repair.

AE® BIORESTORE	Hydrolyzed Wheat Protein, Methicone, Polyquaternium-10, Carbocysteine	Bio-Restore Complex is an association of carbocysteine, wheat protein, methicone and polyquaternium-10.
HYDRA-SIL	Silanetriol and Panthenol	Inner hair protection
AE® BTAC	Behentrimonium Chloride and Cetearyl Alcohol	Cationic surfactant with anti-static properties. Gives hair better combing and softness.
AE® BTCA	Behentrimonium Chloride and Cetearyl Alcohol	Cationic surfactant with anti-static properties. Gives hair better combing and softness.
AE® TMS	Behentrimonium Methosulfate and Cetearyl Alcohol	Cationic tensoactive. Suitable for hair conditioners, masks and styling creams. Improves softness, combability and shine.
PROLISS 100	Glyoxyloyl Carbocysteine, Glyoxyloyl Keratin Amino Acids, Water	Formaldehyde Free, Thermal Hair Fiber Realignment
VIBRISSA® 100	Glyoxylic Acid, Dimethyl Isosorbide, Glyoxyloyl N-Acetyl Cysteine, Tamarindus Indica Extract, Glvoxyloyl Cvsteine.	Non-Animal derived hair straightening/Polishing Active

## Conventional Oils

Product Name	INCI	Description
AE® ACAI	Euterpe Oleracea Fruit Oil	Acai oil is great for unclogging pores and aiding in skin cell regeneration.
AE® ANDIROBA	Carapa guaianensis seed oil	Strengthens the collagen of skin to improve elasticity.
AE® APRICOT KERNEL	Prunus Armeniaca Oil	Light and quickly makes skin soft and smooth (that's due to its Vitamin A content); it percolates deep into the skin.
AE® ARGAN	Argania Spinosa Kernel Oil	It's packed with omega fatty acids, vitamin E, and linoleic acids, all of which work to lightly moisturize your skin, soften dry patches, and even reduce acne.
AE® AVOCADO	Persea Grartissima (Avocado) Oil	The beta carotene, protein, lecithin, fatty acids, and vitamins A, D, and E found in avocado oil help moisturize and protect your skin from damaging UV rays.
AE® BABASSU	Orbignya Oleifera Seed Oil	Babassu oil is rich in antioxidants and fatty acids that make it great for your skin and hair. It's also anti-inflammatory and antibacterial.
AE® BRAZIL NUT	Bertholletia Excelsa Seed Oil	This nutritious oil serves as vital nourishment to the skin and hair. Brazil nut is beneficial to mature and aging skin, and dry skin conditions such as eczema.
AE® BURITI	Mauritia Flexuosa Oil	Buriti oil has several beneficial ingredients that can have a powerful effect on your skin including antioxidant beta-carotene, essential fatty acids and vitamin E.
AE® COCOA BUTTER	Theobroma Cacao (Cocoa) Seed Butter	enriched with Vitamin E, in a soothing fragrance free base, heals and softens rough, dry skin, smoothes marks and tones skin.
AE® COCONUT	Cocos Nucifera (Coconut) Oil	Coconut oil moisturizes the skin, minimizes the look of fine lines and wrinkles, protects skin against environmental stressors, and can soothe irritated skin.
AE® COPAIBA	Copaifera Officinalis (Balsam Copaiba) Resin	nourishing properties of copaiba oil make it a wonderful addition to your skincare routine, particularly if your skin is acne-prone.
AE® CUPUACU BUTTER	Theobroma Grandiflorum Seed Butter	Cupuacu Butter is rich in phytosterols that promote skin elasticity & keeps the skin looking supple.

AE® HEMPSEED	Cannabis Sativa Seed Oil	hemp seed oil is lightweight enough to be used on both the face and body and can provide optimal moisture without feeling heavy on the skin.
AE® JOJOBA	Simmondsia Chinensis (Jojoba) Seed Oil	Jojoba oil is a humectant ingredient. This means that it works to attract water to the top layer of the skin, helping to keep the skin hydrated.
AE® KUKUI NUT	Aleurites Moluccanus Seed Oil	kukui nut oil can help you move into aging with grace by applying it to your wrinkles and crow's feet around your eyes.
AE® MACADAMIA	Macadamia Integrifolia Seed Oil	Macadamia oil nourishes the skin and is great at moisturising. Containing high oleic, linoleic and palmitoleic acid.
AE® OLIVE	Olea Europaea (Olive) Fruit Oil	Olive oil as a moisturizer without any added ingredients by applying it directly onto your skin.
AE® PRACAXI	Pentaclethra macroloba seed oil	Pracaxi oil is also used to effectively treat skin depigmentation, eczema, and acne scars.
AE® PRICKLY PEAR	Opuntia Ficus Indica Seed Oil	Prickly pear oil can reduce skin inflammation, as well as prevent skin damage and acne.
AE® PUMPKIN	Cucurbita Pepo Fruit (Pumpkin) Oil	Pumpkin seed oil is considered a good oil to use for acne prone skin.
AE® ROSE HIP	Rosa Moschata Oil	Rosehip Oil will leave your skin feeling softer, firmer and glowing.
AE® SACHA INCHI	Plukenetia Volubilis (Sacha Inchi) Seed Oil	Sacha Inchi oil nourishes the skin to help support cell membrane integrity, encourage cell regeneration, and increase skin elasticity.
AE® SHEA BUTTER	Butyrospermum Parkii	High concentrations of fatty acids and vitamins make shea butter an ideal cosmetic ingredient for softening skin.
AE® SWEET ALMOND	Prunus Amygdalus Dulcis (Sweet Almond) Oil	Sweet Almond oil acts as a lubricant on the skin surface, which gives the skin a soft and smooth appearance.
AE® TUCUMA BUTTER	Astrocaryum Tucuma Seed Butter	It also contains lots of fatty acids, which means that it can both protect your skin and moisturize it which will aid in keeping it looking supple and young.





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