



ElfaMoist® AC humectant

Nouryon

ElfaMoist[®] AC humectant

Non-tacky humectant for high performing formulations with deep, instant and long-lasting moisturization (30 hours) benefit after single application.

INCI Name: Acetamidoethoxyethanol

Patent: Pending



ElfaMoist[®] AC humectant

Benefits for formulators

- High moisturizing efficacy (instant and over 30 hours)
- Effective penetration and deposition properties with no disruption to the skin barrier
- Non-sticky, easily spreadable aesthetics
- pH and hydrolytic stability
- 100% active (as supplied)
- Easy to formulate, liquid form
- Synergistic effect with other humectants
- Compatible with most commonly used ingredients
- Does not impact the color of your formulation
- Improves freeze thaw stability of emulsions
- Preservative free
- Nitrosamine free



ElfaMoist[®] AC humectant

Technical properties

INCI Name	Acetamidoethoxyethanol
Source	Aminoethoxy ethanol and triacetin
Form/Appearance	Clear, colorless to slightly yellow liquid
Formulation pH range	3 - 8
Typical usage	1% to 10% (depending on formulation)
Does it require neutralization?	No
Preservative	Free
Shelf life	12 months
Regulatory	Global regulatory notifications are in progress
Package size	45 lb. pail – 500 lb. plastic drum

ElfaMoist[®] AC humectant

What does it mean for consumers?

During application

- Great absorbance
- Lubricity in skin feel
- Excellent spreadability

After application

- Lack of stickiness/tackiness
- Highly effective skin hydration
- Instant and long-lasting moisturization (over 30 hours)



ElfaMoist® AC humectant

Suggested applications

Creams and body lotions

Baby care

Eye and facial creams

Facial mask

Pre and post sun care

Shower gels

Hand liquid soap

After shaving

Color cosmetics

Liquid foundation

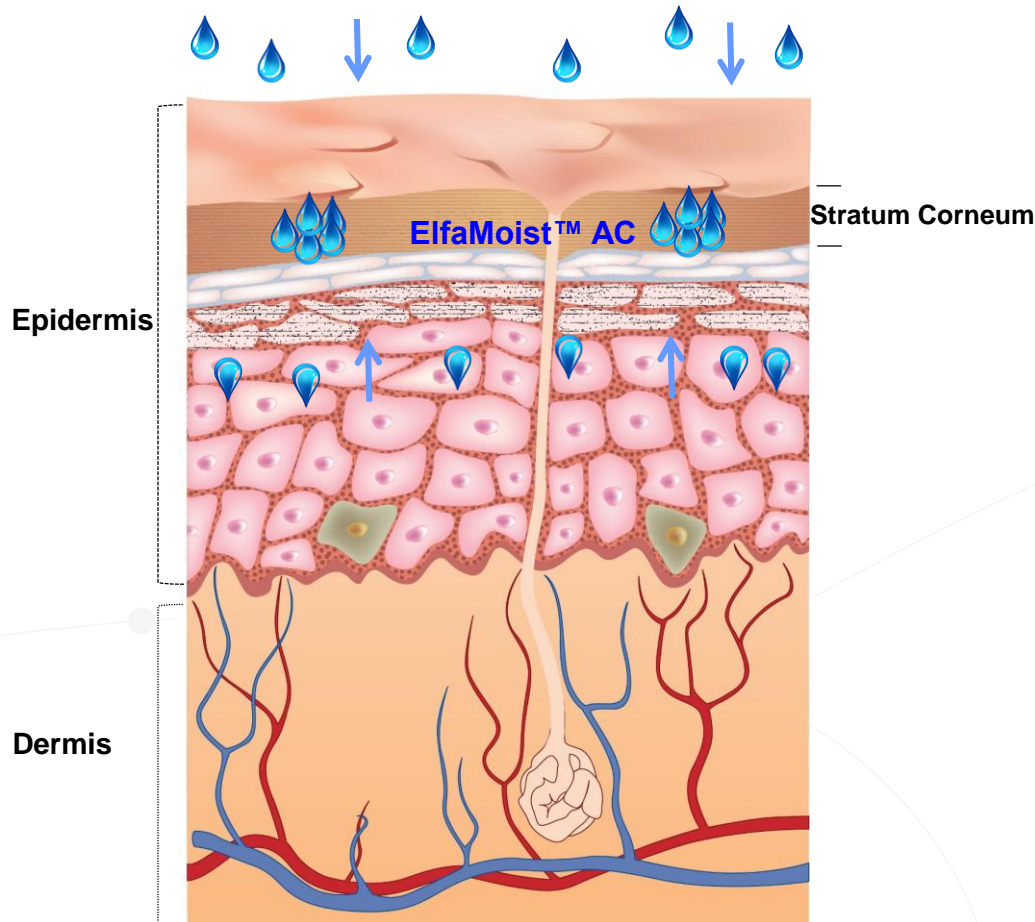
Antiperspirants/
Deodorants

From simple and multifunctional to high-performing skin care formulations



ElfaMoist[®] AC humectant

How does it work?



- Designed to interact with water and keratin (skin proteins) to keep water molecules bound in the stratum corneum
- ElfaMoist AC humectant keeps skin hydrated by firmly binding to water molecules
- *In-vivo* and *in-vitro* tests indicate the binding and penetration mechanisms of ElfaMoist AC humectant to provide skin hydration

ElfaMoist[®] AC humectant Studies and evaluations



ElfaMoist[®] AC humectant

Studies and evaluations

	Methodology	Measurements
Moisturization Efficacy	In vivo Corneometer	Evaluates moisturizing efficacy by measuring the ingredient's ability to increase the water content in the stratum corneum
	ATR-FTIR imaging	Evaluates and measures the penetration and delivery of humectants in the stratum corneum of the skin
Skin barrier	ATR-FTIR image	Measures the lipid organization from the CH ₂ peak position to visualize if active penetrations disturb the skin barrier
pH stability	pH & Hydrolytic stability	Demonstrates pH and viscosity and freeze/thaw stability at 25°C, 45°C and 50°C over a period of 0-12 weeks
Aesthetics	Sensory evaluation	Identifies similarities and differences in skin feel perception among humectants

In vivo Corneometer

Benchmarks used in the studies:

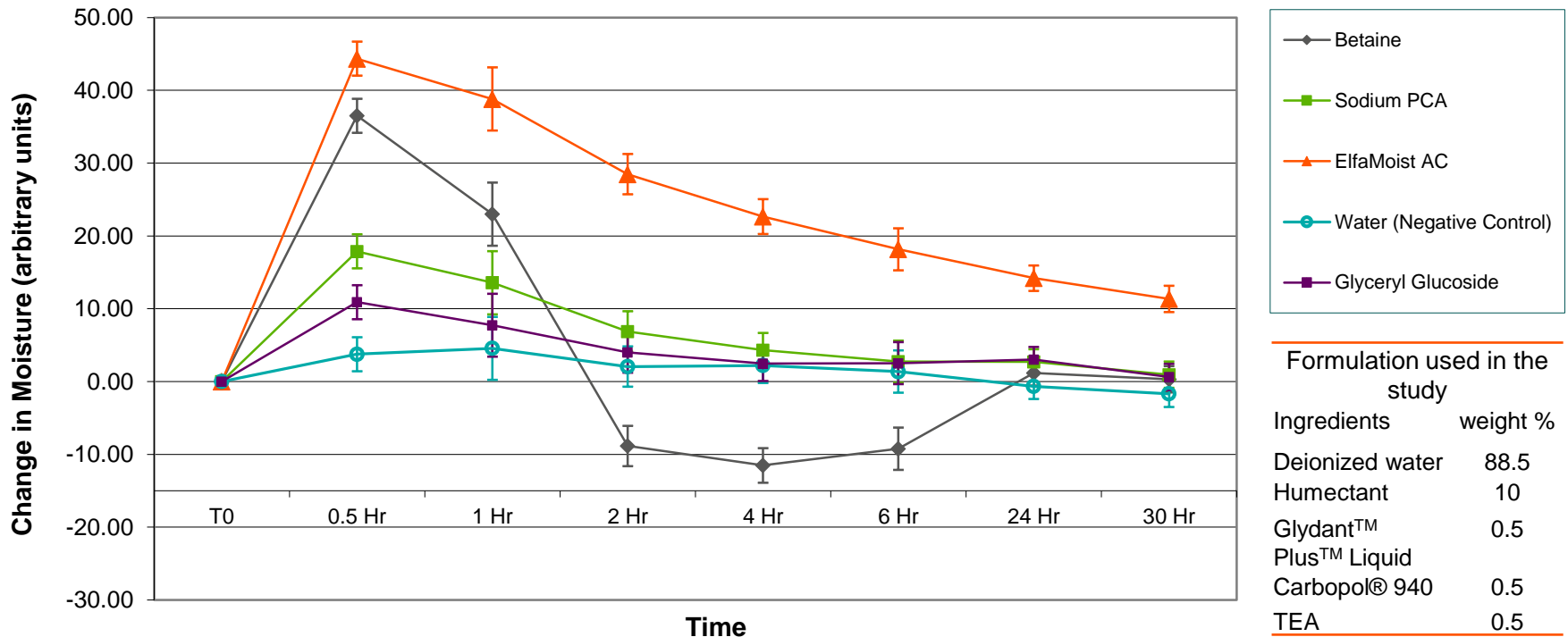
- Betaine
- Sodium PCA (and) Aqua
- Glyceryl Glucoside
- Glycerin



Moisturization efficacy compared with premium humectants

ElfaMoist® AC humectant performed significantly better than premium moisturizing agents initially and over 30 hours of study

In vivo Corneometer study (10% active ingredient in 0.5% Carbopol 940 gel)

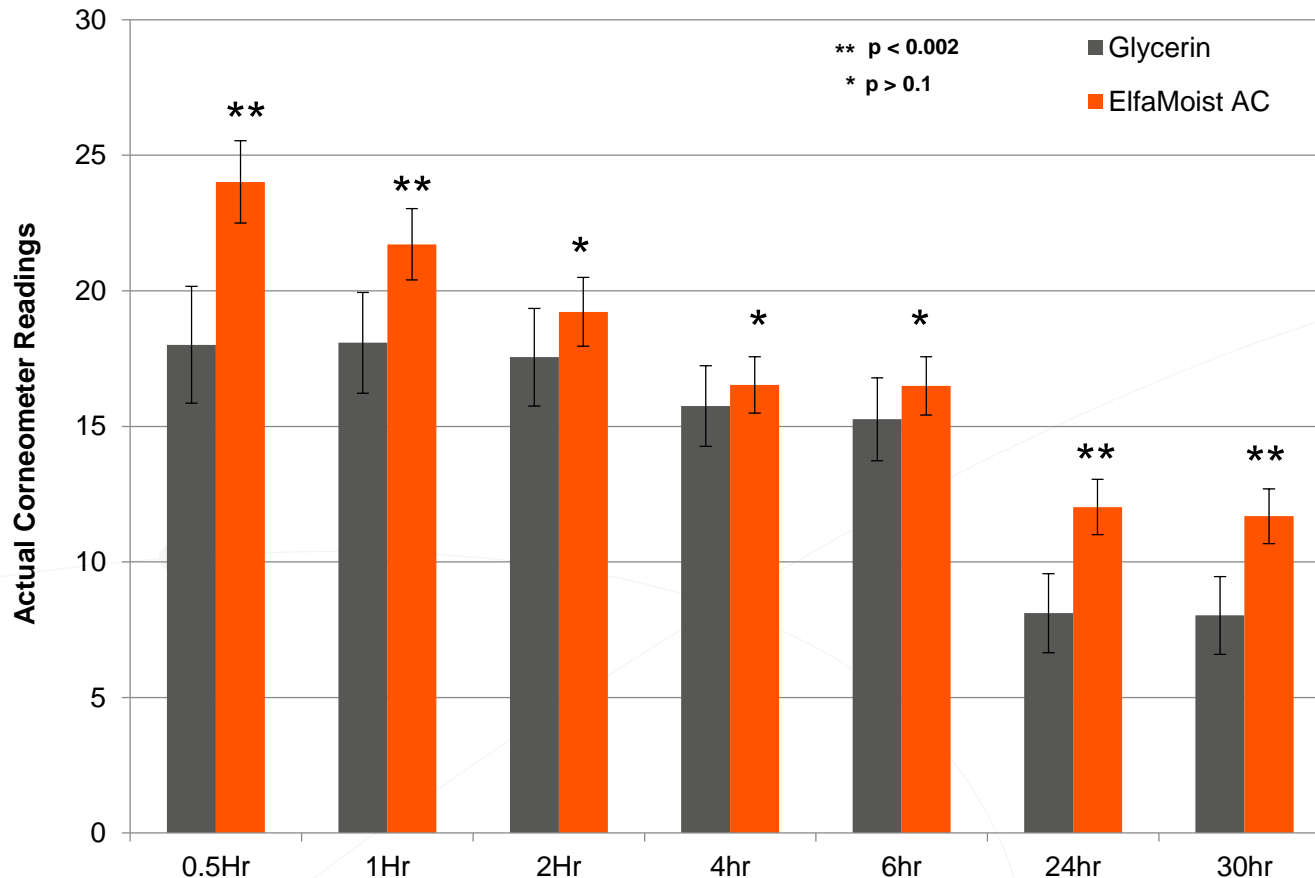


*Non-overlapping bars means statistical difference

Formulation used in the study	
Ingredients	weight %
Deionized water	88.5
Humectant	10
Glydant™	0.5
Plus™ Liquid	
Carbopol® 940	0.5
TEA	0.5

Moisturization efficacy compared with Glycerin

In Vivo Corneometer study demonstrated the superior performance of ElfaMoist® AC over Glycerin



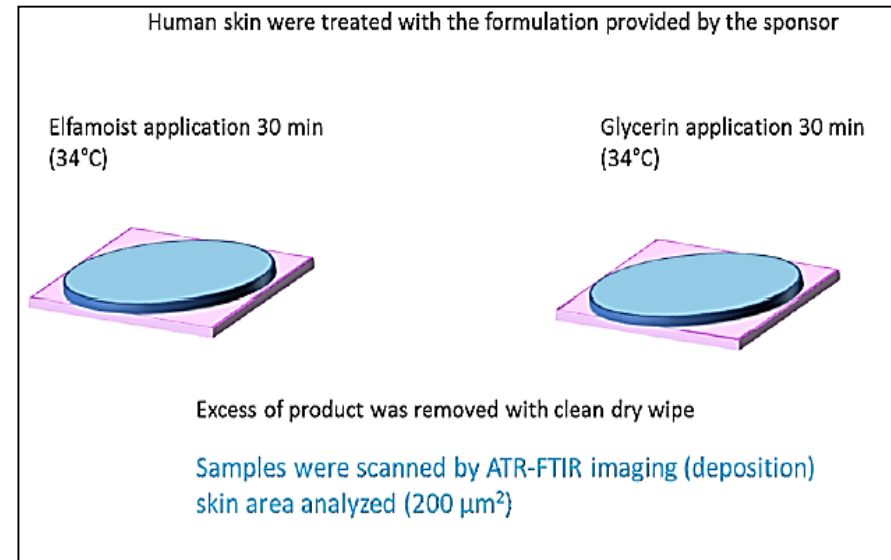
*Non-overlapping bars means statistical difference

- In vivo t-test Corneometer (5% active ingredient in 0.5% Carbopol 940 Gel)
- Number of experiments: 80

Evaluation of penetration, delivery and hydration - ATR-FTIR imaging

Key findings:

- ElfaMoist[®] AC humectant penetrates deeply inside the skin (stratum corneum)
- The active penetration correlates and are associated with a skin moisturizing effect (increase in skin hydration)
- The penetration of ElfaMoist AC humectant into the skin does not show a disruption to the skin barrier

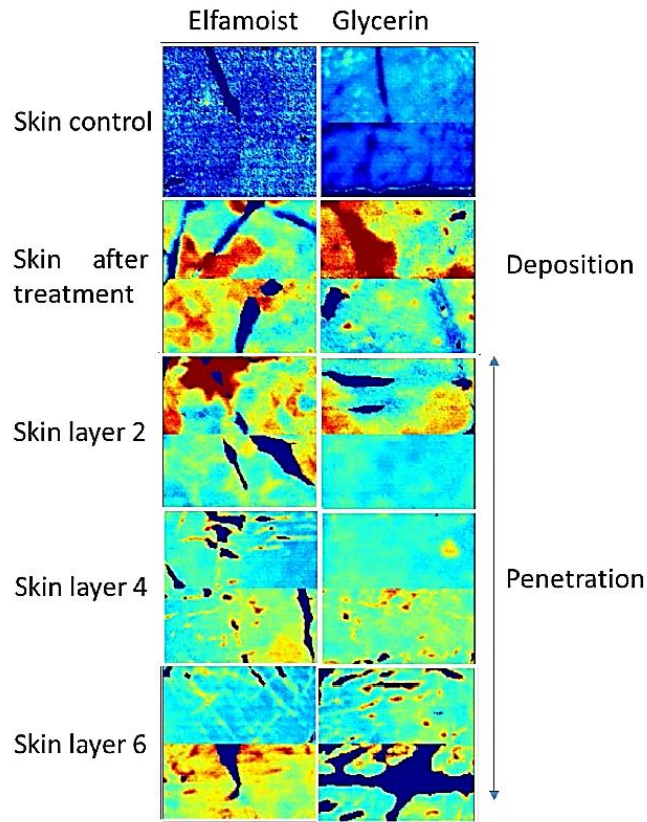
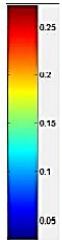


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Deposition and penetration by ATR-FTIR imaging

The higher the ratio, the redder is the image and the higher is the active concentration

Product/Amide II
Area band ratio



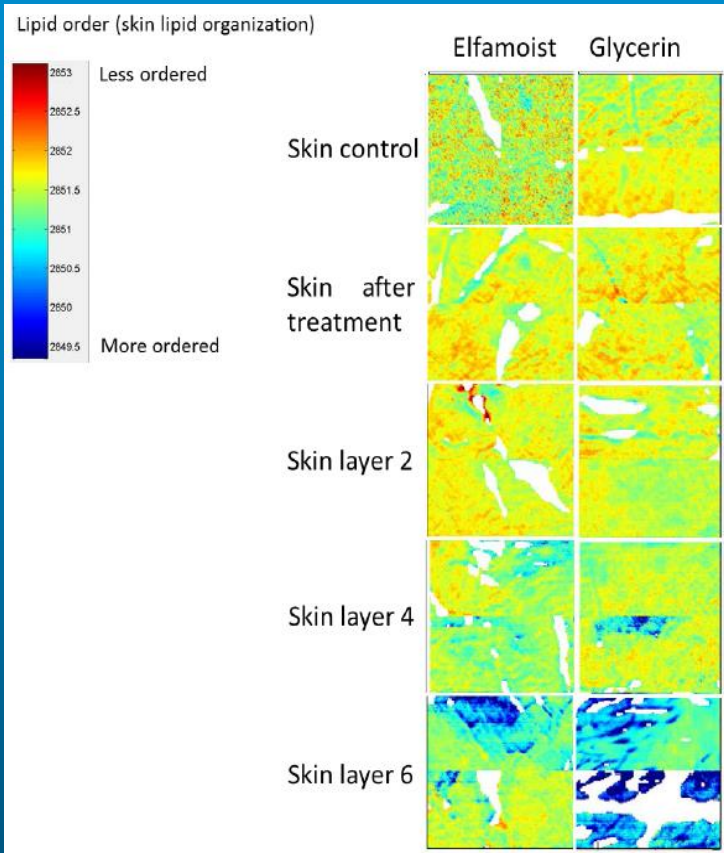
Results recorded with 5% aqueous solution - 0.25mL of solution per square centimeter (12.5mg/skin cm)

Results:

- The deposition of ElfaMoist[®] AC humectant on the human skin was clearly observed after 30 min treatment
- The penetration of ElfaMoist AC humectant was detected up to layer 6, the lowest skin layer analyzed in the study

Skin barrier by ATR-FTIR imaging

In the ATR-FTIR image presented in this section, higher is the value (red) higher is lipid disorder



Results recorded with 5% aqueous solution - 0.25mL of solution per square centimeter (12.5mg/skin cm)

To assess this parameter, TRI/Princeton observed and measured the lipid organization from the CH₂ peak position for the lipid order/disorder.

Results:

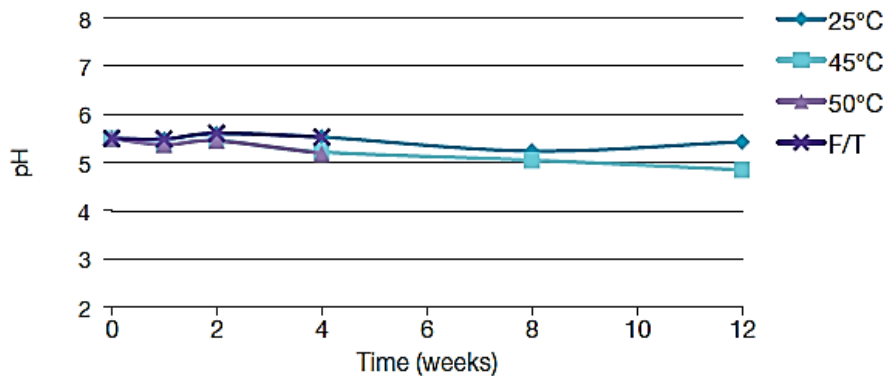
- No significant differences were observed in the lipid order
- ElfaMoist[®] AC humectant does not disturb the skin barrier function and is gentle for the skin

pH & Hydrolytic stability

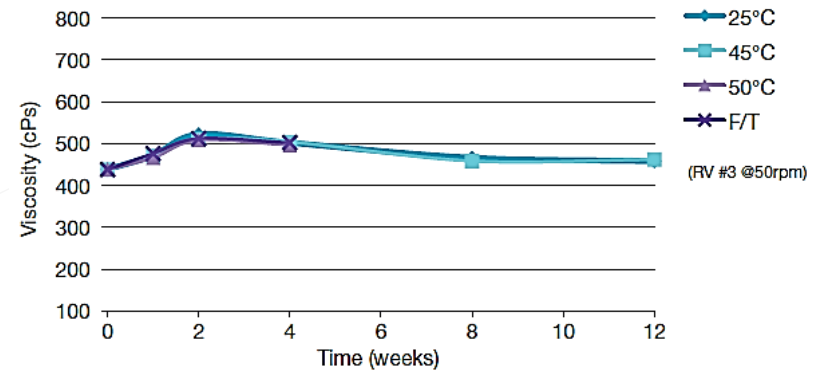
ElfaMoist[®] AC humectant pH and viscosity stability

Excellent pH and viscosity stability and freeze/thaw cycles over a period of 0-12 weeks

ElfaMoist AC pH stability prepared at 10% aqueous and pH adjusted to 5.50



Viscosity stability – Neat ElfaMoist AC



ElfaMoist[®] AC humectant

Emulsion freeze-thaw stability

Oil/Water emulsion formulations for freeze-thaw stability testing:

INCI	2730-48-A BASE	2730-48-B 5% ElfaMoist AC
Phase A		
Water (Aqua)	41.12%	41.12%
Disodium EDTA	0.05%	0.05%
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.05%	0.05%
Dehydroxanthan Gum	0.05%	0.05%
Phase B		
Ethylhexyl Benzoate	10.00%	10.00%
Avobenzone	3.00%	3.00%
Ethylhexyl Salicylate	5.00%	5.00%
Homosolate	12.00%	12.00%
Octocrylene	4.00%	4.00%
Benzophenone-3	6.00%	6.00%
Glyceryl Stearate (and) PEG-100 Stearate	2.00%	2.00%
Paraffin Wax	0.20%	0.20%
Phase C		
Triethanolamine	0.08%	0.08%
Water (Aqua)	2.00%	2.00%
Phase D		
Styrene/Acrylates Copolymer	2.20%	2.20%
Cyclopentasiloxane	3.50%	3.50%
Phenoxyethanol (and) Ethylhexylglycerin	0.50%	0.50%
Tapioca Starch (and) Polymethylsilsesquioxane	3.00%	3.00%
Silica	0.25%	0.25%
ElfaMoist AC humectant	-	5.00%
Water (Aqua)	5.00%	-
Total	100.00%	100.00%

RESULT: Formulation with 5% ElfaMoist AC humectant remains freeze-thaw stable after three cycles



Sensory evaluation

External sensory evaluation

- ElfaMoist® AC humectant
- Betaine
- Sodium PCA (and) Aqua
- Glyceryl Glucoside
- Saccharide Isomerate

In-house sensory evaluation and Objective spreadability data

- ElfaMoist® AC
- Glycerin

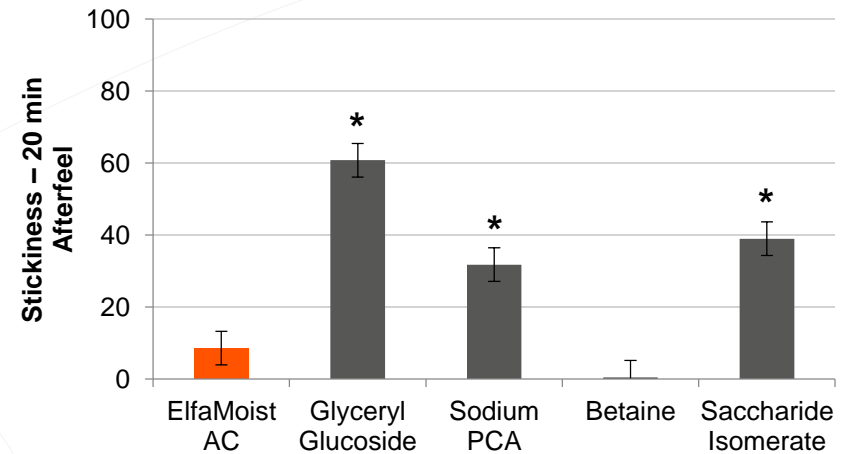
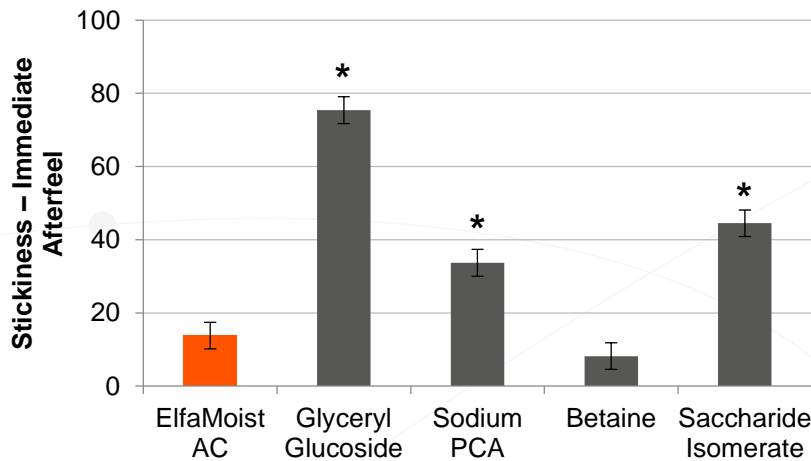


External sensory evaluation

Sensory evaluation conducted by expert panelists trained in Skinfeel Descriptive Analysis methodology

Results:

- ElfaMoist® AC has statistically lower stickiness vs. Glyceryl Glucoside, Sodium PCA, and Saccharide Isomerate



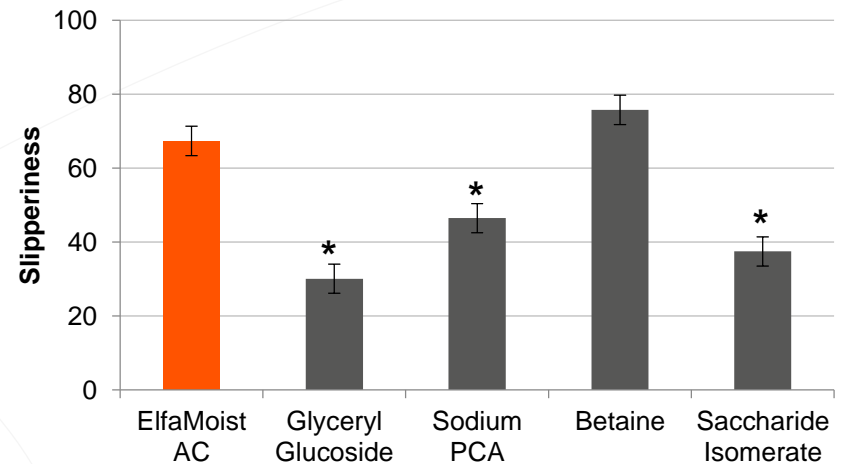
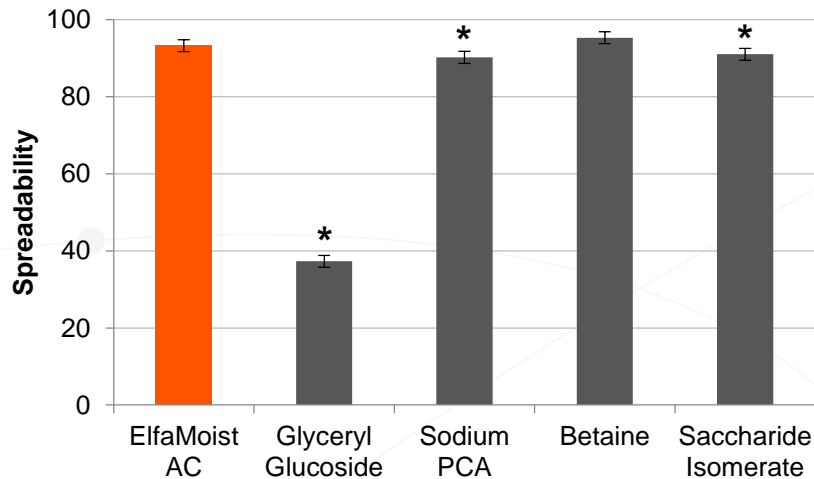
* Indicates significant difference at 95% confidence.

External sensory evaluation (continue)

Sensory evaluation conducted by expert panelists trained in Skinfeel Descriptive Analysis methodology

Results:

- ElfaMoist[®] AC has statistically superior spreadability and slipperiness than Sodium PCA, Glyceryl Glucoside, and Saccharide Isomerate



* Indicates significant difference at 95% confidence.

In-house sensory evaluation

Internal subjective testing evaluated tack and spreadability during the rubout phase as well as after feel stickiness

Results:

ElfaMoist[®] AC humectant demonstrated better tack and spreadability during rub out as well as during the after feel than Glycerin

Subjective evaluation of 100% active raw material

	Pick-up Attribute: Tack/Stickiness	Rub-Out Attribute: Spreadability	After feel Attribute: Tack/Stickiness
Glycerin	1/8	0/8	1/8
ElfaMoist AC	(+) 7/8	(+) 8/8	(+) 7/8

+ statistically different at a 95% confidence level.

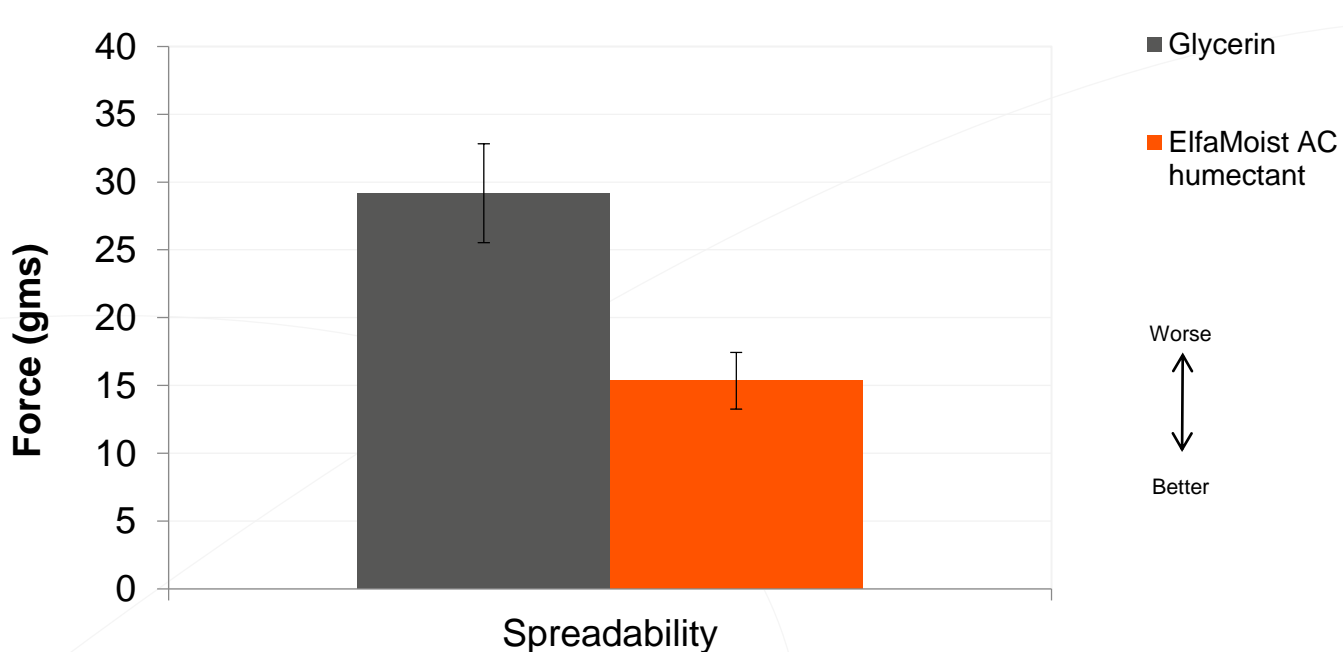
Objective spreadability evaluation

The texture analyzer assesses textural properties by comparing force required to spread a sample, distance and time data

Results

ElfaMoist[®] AC humectant requires statistically less force to spread than Glycerin

Spreadability Evaluated by Texture Analyzer (100% active)



ElfaMoist[®] AC humectant

Conclusion

High moisturizing efficacy (instantly and over 30 hours), after a single application

Performs significantly better than most premium humectants

Effective at depositing, penetrating and delivering hydration to the stratum corneum without disturbing the skin barrier

Moisturizing effect can be seen inside the skin after treatment up to the lowest layer studied

Excellent long-term stability profile

Non-tacky, easily spreadable and better aesthetics than other humectants

Formulation guidelines

Formulating with ElfaMoist[®] AC humectant

Suggested use levels as supplied

Leave-on moisturizing products (creams, lotions, gels)	1.0 – 10.0%
Sun care (pre and post sun care products)	1.0 – 10.0%
Rinse-off products (shower gels, body wash, liquid soap, and skin cleansing systems)	1.0 – 20.0%
Color Cosmetics (Foundations, BB creams, blushes)	1.0 – 7.5%

Suggested pH range of final formulations: 3 - 8

Cooling & Sparkling Coconut Water After Sun (14758-35.B)

Formula

Trade Name	INCI Name	%w/w	Supplier
Concentrate Phase			
Deionized Water	Water (Aqua)	49.80%	Local
STRUCTURE® SOLANACE starch	Potato Starch Modified	1.50%	AkzoNobel
STRUCTURE® XL starch	Hydroxypropyl Starch Phosphate	0.50%	AkzoNobel
ElfaMoist® AC humectant	Acetamidoethoxyethanol	5.00%	AkzoNobel
TAPIOCA PURE starch	Tapioca Starch	1.00%	AkzoNobel
Cremophor® RH 40	PEG-40 Hydrogenated Castor Oil	1.00%	BASF Corporation
Coconut Water 351504	Fragrance	0.20%	Luzi
Microcare® PEHG	Phenoxyethanol (and) Ethylhexylglycerin	1.00%	Thor
25% Citric Acid Solution	Citric Acid (and) Water	unknown	Local
Propellant			
Ap 40	Propane/Butane	40.00%	Unknown Supplier
Total:		100.00%	

Instantly decreases the temperature of the skin surface and moisturizes

Properties

pH = 5.5 – 6.5

Appearance

Low viscosity white gel

Daily Wear Moisturizer SPF 15 (expected) (2710-32.B)

Trade Name	INCI Name	%w/w	Supplier
Phase A			
Deionized Water	Water (Aqua)	64.85%	Local
Propylene Glycol	Propylene Glycol	2.00%	Sigma-Aldrich
Euxyl® PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	0.50%	Schülke & Mayr GmbH
Pemulen TR-1	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.45%	Lubrizol Advanced Materials
Phase B			
Arlacel™ 165	Glyceryl Stearate (and) PEG-100 Stearate	2.00%	Croda, Inc.
FINSOLV® EB	Ethylhexyl Benzoate	5.00%	Innospec Active Chemicals
Schercemol NGDO	Neopentyl Glycol Diethylhexanoate	1.50%	Lubrizol Advanced Materials
Neo Heliopan® 357	Avobenzene	3.00%	Symrise
Neo Heliopan® HMS	Homosalate	3.00%	Symrise
Neo Heliopan® OS	Ethylhexyl Salicylate	5.00%	Symrise
Neo Heliopan® 303	Octocrylene	2.60%	Symrise
Paraffin Wax SP-173	Paraffin	1.00%	Strahl & Pitsch
Phase C			
Triethanolamine 99%	Triethanolamine	0.40%	Brenntag/Textile
Deionized Water	Water (Aqua)	1.00%	Local
Phase E			
DERMACRYL® AQF (45% active) polymer	Acrylates Copolymer	2.20%	AkzoNobel
Phase F			
ElfaMoist® AC humectant	Acetamidoethoxyethanol	2.50%	AkzoNobel
DRY-FLO® PC starch	Aluminum Starch Octenylsuccinate	2.00%	AkzoNobel
Dow Corning® 245 fluid	Cyclopentasiloxane	1.00%	Dow Corning Corp
Phase G			
50% Citric Acid Solution	Citric Acid (and) Water	0.00%	Local
Total:		100.00%	

Long-lasting SPF retention and moisturization while still feeling light on the skin

Properties

pH: 5.5 - 6.5

Viscosity: 6000 - 7500__ cps
Brookfield Helipath Spindle C 10 rpms

Appearance

Thin light lotion

Deeply Replenishing Moisture Mask (14748-76)

Trade Name	INCI Name	%w/w	Supplier
Phase A			
Deionized Water	Water (Aqua)	78.75%	Local
Propylene Glycol U.S.P.	Propylene Glycol	2.00%	Arco Chemical Company
STRUCTURE® SOLANACE starch	Potato Starch Modified	0.60%	AkzoNobel
AMAZE™ XT polymer	Dehydroxanthan Gum	0.10%	AkzoNobel
Phase B			
Apifil Pastilles	PEG-8 Beeswax	2.30%	Gattefosse s.a.s.
Cosmedia SP	Sodium Polyacrylate	0.75%	BASF Corporation
Capric/Caprylic Triglyceride	Capric/Caprylic Triglyceride	5.00%	Essential Ingredients
Phase C			
ElfaMoist® AC humectant	Acetamidoethoxyethanol	10.00%	AkzoNobel
Euxyl® PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	0.50%	Schülke & Mayr GmbH
Total:		100.00%	

Overnight moisturizing intensive treatment that delivers a hydrating benefit with pleasing aesthetics

Properties

pH: 5.5 - 6.5

Viscosity: 20000 - 30000__
Brookfield Helipath C-spindle @ 10 rpm

Appearance
Opaque White Emulsion

Melting Hydrating Aqua Gel (14758-5.2)

Trade Name	INCI Name	%w/w	Supplier
Phase A			
Deionized Water	Water (Aqua)	86.30%	Local
Dissolvine® GL-47-S chelate (47% active)	Tetrasodium Glutamate Diacetate	0.20%	AkzoNobel
Propylene Glycol U.S.P.	Propylene Glycol	1.00%	Arco Chemical Company
ElfaMoist® AC humectant	Acetamidoethoxyethanol	5.00%	AkzoNobel
STRUCTURE® 2001 polymer (29% active)	Acrylates/Steareth-20 Itaconate Copolymer (and) Water	3.50%	AkzoNobel
Phase B			
Triethanolamine 99%	Triethanolamine	0.50%	Brenntag/Textile
Deionized Water	Water (Aqua)	2.50%	Local
Phase C			
Microcare® PEHG	Phenoxyethanol (and) Ethylhexylglycerin	1.00%	Thor
25% Citric Acid Solution	Citric Acid (and) Water	unknown	Local
Total:		100.00%	

This Melting Hydrating Aqua Gel provides 30-hour moisturization and excellent aesthetics

Properties

pH: 6.5 - 7

Appearance

Clear gel

Moisturizing Facial Cleanser (14741-54.A2)

Trade Name	INCI Name	%w/w	Supplier
Concentrate			
Deionized Water	Water (Aqua)	87.25%	Local
AMAZE™ XT polymer	Dehydroxanthan Gum	0.18%	AkzoNobel
Elfacos® GT 282S rheology modifier	Ceteareth-60 Myristyl Glycol	0.45%	AkzoNobel
ElfaMoist® AC humectant	Acetamidoethoxyethanol	0.95%	AkzoNobel
Microcare BDP	Phenoxyethanol (and) Benzoic Acid (and) Dehydroacetic Acid	0.72%	Thor
Galacid Food 80	Lactic Acid	0.15%	Local
Sodium Hydroxide (25%) active in water	Not listed.	0.30%	AkzoNobel Personal Care
Propellants			
AP40	Propane (and) Isobutane (and) n-Butane	10.00%	Progas GmbH & Co KG
	Total:	100.00%	

A deep moisturizing low pH facial cleanser. Effective skin conditioning cleansing while moisturizing with Elfamoist™ AC

Properties

pH: 4.5 – 5.5

Packaging

Plastipak SprayPET® PET plastic aerosol container

All Day Moisture Body Lotion (2684-87.H)

TRADE NAME	INCI NAME	% W/W	SUPPLIER
Phase A			
Deionized Water	Water (Aqua)	81.44%	Local
Dissolvine® 220-S chelate	Tetrasodium EDTA	0.10%	AkzoNobel
Carbopol® 940 polymer	Carbomer	0.20%	Lubrizol Advanced Materials
Carbopol® Ultrez 21 polymer	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.10%	Lubrizol Advanced Materials
Phase B			
PELEMOL® CP	Cetyl Palmitate	3.50%	Phoenix Chemical, Inc.
Mineral Oil, Light	Mineral Oil/Paraffinum Liquidum/Huile Minerale	3.50%	Sonneborn Inc
Crodacol C95-NF	Cetyl Alcohol	0.75%	Croda, Inc.
NATURECHEM GMHS	Glyceryl Hydroxystearate	0.75%	Vertellus Performance Materials Inc.
Hystrene® 5016 NF FG PWD	Stearic Acid	0.75%	Chemtura
Brij S100	Steareth-100	0.75%	Croda, Inc.
Dermol 2014	Octyldodecyl Myristate	0.75%	Alzo Inc
Phase C			
Sodium Hydroxide (25% Solution)	Sodium Hydroxide (25% Solution)	0.41%	Ricca Chemical Company
Phase D			
ElfaMoist® AC humectant	Acetamidoethoxyethanol	5.00%	AkzoNobel
DRY-FLO® TS starch	Tapioca Starch (and) Polymethylsilsesquioxane	1.00%	AkzoNobel
Euxyl® PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	1.00%	Schülke & Mayr GmbH
	Total:	100.00%	

Properties

pH = 6.1 - 6.7

Viscosity

20,000 - 30,000 cPs
Brookfield RV Helipath
C-spindle @ 10 rpm

Appearance

Opaque off-white
emulsion

Nourishing Baby Cream (2710-19.B)

TRADE NAME	INCI NAME	% W/W	SUPPLIER
Phase A			
Deionized Water	Water (Aqua)	71.30%	Local
STRUCTURE® SOLANACE starch	Potato Starch Modified	1.50%	AkzoNobel
Dissolvine® NA2-S chelate	Disodium EDTA	0.10%	AkzoNobel
Phase B			
Emulsiphos	Potassium Cetyl Phosphate (and) Hydrogenated Palm Glycerides	2.00%	Symrise
Arlacel™ 165	Glyceryl Stearate (and) PEG-100 Stearate	2.00%	Croda, Inc.
Lanette® O	Cetearyl Alcohol	3.00%	BASF Corporation
Vitamin E USP	Tocopheryl Acetate	0.10%	Protameen Chemicals Inc
Dow Corning® 245 fluid	Cyclopentasiloxane	2.00%	Dow Corning Corp
Lipovol ALM	Prunus Amygdalus Dulcis (Sweet Almond) Oil	3.00%	Lipo Chemicals
Arlamol™ HD	Isohexadecane	5.00%	Croda, Inc.
Ultrapure SC White Petrolatum	Petrolatum	1.00%	Ultra Chemical Inc.
Cetiol® SB 45	Butyrospermum Parkii (Shea Butter)	2.00%	BASF Corporation
Phase C			
ElfaMoist® AC humectant	Acetamidoethoxyethanol	5.00%	AkzoNobel
TAPIOCA PURE starch	Tapioca Starch	1.50%	AkzoNobel
Euxyl® PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	0.50%	Schülke & Mayr GmbH
	Total:	100.00%	

Properties

pH = 5.0 – 6.0

Viscosity

35,000 – 120,00 cPs
*Brookfield RV Helipath
 C-spindle @ 10 rpm*

Appearance

Opaque white emulsion

Replenishing Moisture Mask (2710-20.C)

TRADE NAME	INCI NAME	% W/W	SUPPLIER
Phase A			
Deionized Water	Water (Aqua)	72.75%	Local
Glycerin (99.7% FCC Grade)	Glycerin	8.00%	Archer Daniels Midland
STRUCTURE® SOLANACE starch	Potato Starch Modified	0.60%	AkzoNobel
AMAZE™ XT polymer	Dehydroxanthan Gum	0.10%	AkzoNobel
Phase B			
Apifil Pastilles	PEG-8 Beeswax	2.30%	Gattefosse s.a.s.
Cosmedia SP	Sodium Polyacrylate	0.75%	BASF Corporation
Schercemol™ NGDO	Neopentyl Glycol Diethylhexanoate	5.00%	Lubrizol Advanced Materials
Capric/Caprylic Triglyceride	Capric/Caprylic Triglyceride	3.00%	Essential Ingredients
XIAMETER PMX-200 SILICONE FLUID 50CS	Dimethicone	2.00%	Dow Corning Corp
Phase C			
ElfaMoist® AC humectant	Acetamidoethoxyethanol	5.00%	AkzoNobel
Euxyl® PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	0.50%	Schülke & Mayr GmbH
	Total:	100.00%	

Properties

pH = 5.5 – 6.5

Viscosity

20,000 – 30,000 cPs
Brookfield RV Helipath
C-spindle @ 10 rpm

Appearance

Opaque white emulsion

Hydrating Tightening Mask (SH.021-C.7)

TRADE NAME	INCI NAME	% W/W	SUPPLIER
Phase A			
Deionized Water	Water (Aqua)	89.25%	Local
FLEXAN® II polymer	Sodium Polystyrene Sulfonate	2.00%	AkzoNobel
NATROSOL 250HHR CS	Hydroxyethylcellulose	0.20%	Aqualon
Dissolvine® NA2-S chelate	Disodium EDTA	0.15%	AkzoNobel
Butylene Glycol	Butylene Glycol	3.00%	Sinopharm Chemical Reagent
Methylparaben	Methylparaben	0.10%	Protameen Chemicals Inc.
Phase B			
ElfaMoist® AC humectant	Acetamidoethoxyethanol	5.00%	AkzoNobel
Phase C			
Euxyl® PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	0.30%	Schülke & Mayr GmbH
	Total:	100.00%	

Properties

pH = 5.5 – 7.0

Appearance
Clear liquid

Hydrating Eye Treatment (2684-88.H)

TRADE NAME	INCI NAME	% W/W	SUPPLIER
Phase A			
Deionized Water	Water (Aqua)	70.65%	Local
FLEXAN® II polymer	Sodium Polystyrene Sulfonate	2.00%	AkzoNobel
Propylene Glycol	Propylene Glycol	3.00%	Local
STRUCTURE® XL rheology modifier	Hydroxypropyl Starch Phosphate	1.00%	AkzoNobel
AMAZE™ XT polymer	Dehydroxanthan Gum	0.40%	AkzoNobel
Phase B			
Montanov™ 68	Cetearyl Alcohol (and) Cetearyl Glucoside	1.50%	Seppic
Cutina® GMS V	Glyceryl Monostearate	1.25%	BASF Corporation
Lanette® O	Cetearyl Alcohol	3.00%	BASF Corporation
Vitamin E	Acetate Tocopheryl Acetate	0.20%	DSM Nutritional Products AG
Lipovol A	Persea Gratissima (Avocado) Oil	2.00%	Lipo Chemicals
Lipovol ALM	Prunus Amygdalus Dulcis (SweetAlmond) Oil	2.50%	Lipo Chemicals
Xiameter® PMX-0345 Cyclosiloxane Blend	Cyclopentasiloxane (and) Cyclohexasiloxane	1.00%	Dow Corning Corp.
Capric/Caprylic Triglyceride	Capric/Caprylic Triglyceride	2.00%	Essential Ingredients
Finsolv TN	C12-15 Alkyl Benzoate	2.50%	Innospec Active Chemicals
Phase C			
ElfaMoist® AC humectant	Acetamidoethoxyethanol	5.00%	AkzoNobel
DRY-FLO PC starch	Aluminum Starch Octenylsuccinate	1.00%	AkzoNobel
Phase D			
Euxyl® PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	1.00%	Schülke & Mayr GmbH
	Total:	100.00%	

Properties

pH = 5.4 - 6.2

Viscosity

10,000 - 30,000 cPs
*Brookfield RV Helipath
 C-spindle @ 10 rpm*

Appearance

Opaque off-white emulsion

Roll-On AP/DEO (2710-21.E)

TRADE NAME	INCI NAME	% W/W	SUPPLIER
Phase A			
Deionized Water	Water (Aqua)	61.35%	Local
STRUCTURE [®] XL rheology modifier	Hydroxypropyl Starch Phosphate	1.50%	AkzoNobel
BRIJ [™] S721-SO-(AP)	Steareth-21	0.90%	Croda, Inc.
ElfaMoist [®] AC humectant	Acetamidoethoxyethanol	1.00%	AkzoNobel
Phase B			
Brij S2-SO-(AP)	Steareth-2	2.25%	Croda, Inc.
Arlamol [™] PS15E	PPG-15 Stearyl Ether	2.00%	Croda, Inc.
Phase C			
Euxyl [®] PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	1.00%	Schülke & Mayr GmbH
Chlorhydrol 50	Aluminum Chlorohydrate (and) Water	30.00%	Summit Research Labs, Inc.
	Total:	100.00%	

Properties

pH = 4.0 – 5.0

Viscosity

1,500 - 3,500 cPs
*Brookfield RV Helipath
 C-spindle @ 10 rpm*

Appearance

Translucent liquid

Hydrating Clear Hand Soap (2710-22.C)

TRADE NAME	INCI NAME	% W/W	SUPPLIER
New Phase			
Deionized Water	Water (Aqua)	42.70%	Local
CELQUAT® SC-240C polymer	Polyquaternium-10	0.40%	AkzoNobel
Sodium Benzoate	Sodium Benzoate	0.20%	J.T.Baker
Dissolvine® GL-47-S chelate (47% active)	Tetrasodium Glutamate Diacetate	0.20%	AkzoNobel
ElfaMoist® AC humectant	Acetamidoethoxyethanol	5.00%	AkzoNobel
Standapol® ES-2	Sodium Laureth Sulfate	36.00%	BASF Corporation
Crodateric CAB 30 (30% active)	Cocamidopropyl Betaine	15.00%	Croda, Inc.
Sodium Chloride	Sodium Chloride	0.50%	Fisher Scientific
	Total:	100.00%	

Properties

pH = 4.0 – 5.0

Viscosity

10,000 - 15,500 cPs
Brookfield RV Helipath
C-spindle @ 10 rpm

Appearance

Clear liquid

Intense Moisture Pudding Cream (KM150911-4.E)

TRADE NAME	INCI NAME	% W/W	SUPPLIER
Phase A			
Deionized Water	Water (Aqua)	76.19%	Local
Glycerin	Glycerin	2.00%	Sinopharm Chemical Reagent
Butylene Glycol	Butylene Glycol 3.00% Sinopharm Chemical Reagent		
Carbopol® Ultrez 20 Polymer	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.15%	Lubrizol Advanced Materials
Phase B			
Emulgade® SUCRO	Sucrose Polystearate (and) Hydrogenated Polyisobutene	1.00%	BASF Corporation
Arlacel™ 165	Glyceryl Stearate (and) PEG-100 Stearate	1.50%	Croda, Inc.
Pripure 3759	Squalane	2.00%	Croda, Inc.
Myritol® 318	Caprylic/Capric Triglyceride	1.50%	BASF Corporation
Pionier 2076 P	Mineral Oil	1.00%	Hansen&Rosenthal KG
XIAMETER PMX-200 SILICONE FLUID 50CS	Dimethicone	2.00%	Dow Corning Corp
Phase C			
BALANCE® RCFg polymer (30% active)	Acrylates Copolymer	4.00%	AkzoNobel
AMP-95	Aminomethyl Propanol (and) Water	0.56%	Angus Chemical
Phase D			
ElfaMoist® AC humectant	Acetamidoethoxyethanol	5.00%	AkzoNobel
Phase E			
Euxyl® K220	Methylisothiazolinone (and) Ethylhexylglycerin (and) Water	0.10%	Schülke & Mayr GmbH
	Total:	100.00%	

Properties

pH = 6.5 – 7.5

Viscosity

35,000 - 60,000 cPs
Brookfield RV Helipath
C-spindle @ 10 rpm

Appearance

Opaque white emulsion

The background is a solid orange color. There are two thin white curved lines. One starts from the left edge, curves upwards and to the right, ending with a small blue dot. The other starts from the bottom left, curves upwards and to the right, ending with a small green dot. The text "Thank you!" is centered in the upper-left quadrant.

Thank you!

Nouryon