Clean. Green. Sustainable

Ethically sourced

ingredients





Coco Surfactant

100% coconut-derived surfactants that deliver excellent cleansing property with proven mildness for personal, home, and institutional products.



100%

1.0

SULFATE-FREE CLEANSERS

PRIMARY SURFACTANTS



SUFRAVON 874

C12 - C18 Coconut Fraction Home Care Formulations

SUFRAVON 868

Potassium Cocoate Personal/Home Care Formulations

SUFRAVON 890

Potassium Cocoate (and) Potassium Olivate Personal Care Formulations

SUFRAVON 875

Potassium Laurate Personal Care Formulations

SOLID

SUFRAVON SN100 (SOAP NOODLES)

Sodium Cocoate Personal/Home Care Formulations

SUFRAVON SCI80

Sodium Cocoyl Isethionate
Personal/Home Care Formulations



FOAMIER SOLUTIONS

FOAM BOOSTER

SUFRAMIDE 307

Cocamide Methyl MEA (CMMEA) 80% Active Nitrosamine-free, EO-free, DEA-free

SUFRAMIDE 400/400L

400 - Cocamide MIPA 400L - Cocamide MIPA (and) Cocamidopropyl Betaine Nitrosamine-free, EO-free, DEA-free, MEA-free

SUFRAMIDE 301/300/305

Cocomonoethanolamide (CMEA) 85-95% Active Nitrosamine-free, EO-free, DEA-free

SUFRAMIDE 640

Aqua (and) Cocamide MEA (and) Glycerin (and) Sodium Benzoate 40-45% Active

SUFRAMIDE 182/190/191

Cocodiethanolamide (CDEA) 82-90% Active EO-free

SUFRAMIDE LD

Lauramide DEA 90% Active EO-free

SUFRAMIDE LM

Lauramide MEA 90% Active EO-free, DEA-free

MILD WASHES

WIDE PH RANGE SURFACTANTS

SUFRASOFT CB30

Cocamidopropyl Betaine 30% Active

SUFRASOFT CB45

Cocamidopropyl Betaine 40% Active

SUFRASOFT CB30LS

Cocamidopropyl Betaine 30% Active (Low Salt)

SUFRASOFT CB140

Cocamidopropyl Betaine 30% Active (Glycerin-free)

SUFRASOFT LB30

Lauramidopropyl Betaine 30% Active

SUFRASOFT HS100

Cocamidopropyl Hydroxysultaine 41-43% Active

SUFRASOFT HS300

Cocamidopropyl Hydroxysultaine 42-45% Active (Glycerin-free)

SUFRASOFT HS200

Lauramidopropyl Hydroxysultaine 42-45% Active

SUFRASOFT HS600 (43% Active) SUFRASOFT HS700 (30% Active) Lauryl Hydroxysultaine

SUFRASOFT A0100

Cocamidopropylamine Oxide 29-33% Active

SUFRASOFT A0200

Lauramine Oxide 30-33% Active

SUFRASOFT A0250

Cocamine Oxide 30-33% Active





- Cold-processable*
- Compatible with a wide range of surfactants
- Allergen-free and non-GMO
- Enhances the luxurious feel of formulations

GLYSOFT RG*

Refined Glycerin 100% Coconut-derived glycerin

GLYSOFT SF*

Cocoglycerides Superfatting and superior thickening agent

NEOSOFT SD/CD*

Stearamidopropyldimethylamine Lactate / Cocamidopropyldimethylamine Lactate Cationic surfactant as a conditioning agent in hair care products

NEOSOFT CO90

Dicocoylethyl Hydroxyethylammonium Methosulfate (and) Cocoglycerides (and) Butylene Glycol Conditioning Active

EMULSIER GMS 100/200

Glyceryl Stearate Low HLB emulsifier

EMULSIER GML

Glyceryl Laurate Coconut-derived emulsifier

EMULSIER PGE

Polyglycerol Esters Coconut-derived solubilizer

NATURA COCONUT OIL

Cocos nucifera oil Emollient For cosmetics and soap making

PEARLUX PB*

Cold-processable Pearlizing blend

PEARLUX OB*

Cold-processable Opacifying blend

PEARLUX EGDS

Glycol Distearate
Superior pearlizing agent compatible
with a wide range of surfactants

PEARLUX EGMS

Glycol StearateOpacifying angent compatible with a wide range of surfactants















Talk to our experts: info@natura-aeropack.com www.natura-aeropack.com

Learn more about our sustainable ingredients



f in Natura Aeropack Corporation

3F-REV-01-2025_U&I

Coco Emollients

PETROLEUM-FREE MOISTURIZER

Naturally-derived skin protecting and caring products. Smoothens and moisturizes the skin resulting in lower transepidermal water loss.







COCOLATUM 503



APPLICATION INCI NAME FUNCTION PRODUCT

Cocoglycerides (and) Cera alba (Beeswax) COCOLATUM 501 (and) Euphorbia cerifera (Candelilla) Wax

> Cocoglycerides (and) Oryza sativa (Rice) Bran Wax (and) Euphorbia cerifera (Candelilla) Wax

Moisturizer, Ointment, Lubricant, Improves moisture barrier Hand Balm, Body Butter

100% plant-derived for Moisturizer, Ointment, Lubricant intense moisturization

Glyzer CB100

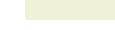


SKIN-SOFTENING BUTTER

PRODUCT INCI NAME FUNCTION APPLICATION

GLYZER CB100 Cocos nucifera (Coconut) Seed Butter Body Butter, Body Wash, Hair Conditioner, Lip Balm Skin moisturizer





Scan to view



COCONUT TRIGLYCERIDE EMOLLIENTS

PRODUCT	INCI NAME	FUNCTION	APPLICATION
GLYZER CT100	Caprylic/Capric Triglyceride	Carrier oil	Baby Oil, Face Oil, Beauty Elixir
GLYZER CT200	Caprylic/Capric/Lauric Triglyceride	High lauric mositurizer	Cosmetics, Face Moisturizer
GLYZER CT300	Cocos nucifera (Coconut) Oil	Aromatic coconut oil	Hair Oil, Body Oil, Massage Oil, Fragrance Oil
GLYZER CT500	Cocoglycerides	Solubilizer and dispersing agent	Creams, Sun Care, Decorative Cosmetics
GLYZER CT600	Tricaprylin	Light Oil Feel	Light body Oil, Massage Oil





dicaprate

FAST-ABSORBING EMOLLIENT

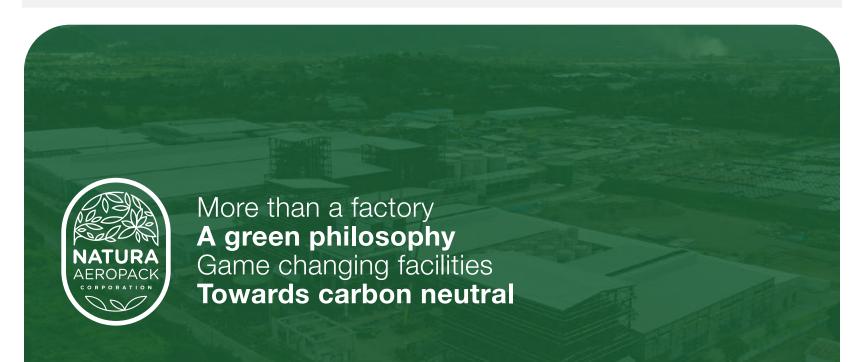
PRODUCT	INCINAME	FUNCTION	APPLICATION
GLYZER CE100	Coco Caprylate	Dry-touch emollient	Face Cream, Gel Cream, Makeup Removers, Decorative Cosmetics
GLYZER CE200	Isoamyl Laurate	Lightweight emollient	Face Serum, Cosmetics, Hair Serum, Sunscreen, Lip Care Products, Baby Oil
GLYZER CE300	Coco Caprylate / Caprate	Silky-feel emollient	Intimate Care Products, Lip Mask, Face Cream, Face Primer
GLYZER CE500	Butylene glycol dicaprylate /	Fast-spreading light emollient	Skin Care, Sun Care, Decorative Cosmetics

Coco Actives

PLANT-BASED ACTIVE INGREDIENTS

Earth-conscious ingredients that are proven to be effective in solving challenges in skin care, hair care, and home care.

PRODUCT	INCI NAME	APPLICATION
SUFRAQUAT FS20I	Dialkylester Hydroxyethylammonium Methosulfate (and) Isopropyl Alcohol	Fabric Softener (High active for medium-viscosity formulations)
SUFRAQUAT FS25I	Dialkylester Hydroxyethylammonium Methosulfate (and) Isopropyl Alcohol	Fabric Softener (High active for very low-viscosity formulations)
SUFRAQUAT FS50I	Dialkylester Hydroxyethylammonium Methosulfate (and) Isopropyl Alcohol	Fabric Softener (Easily processable, non-viscosity building)
SUFRAQUAT FS100I	Dialkylester Hydroxyethylammonium Methosulfate (and) Isopropyl Alcohol	Fabric Softener (Easily processable, medium-viscosity building)
SUFRAQUAT FS300I	Dialkylester Hydroxyethylammonium Methosulfate (and) Isopropyl Alcohol	Fabric Softener (Offers cost-effective formulations at low usage levels)
SUFRAQUAT FS400P	Dialkylester Hydroxyethylammonium Methosulfate (and) Propylene Glycol	Fabric Softener (Clear in ultrahigh concentration formulation, low-viscosity building)
SUFRAQUAT FS500	Dialkylester Hydroxyethylammonium Methosulfate	Fabric Softener (Institutional and Industrial formulations, low-viscosity building)
NATPR0 8000	Glyceryl Caprylate (and) Glyceryl Caprate (and) Glyceryl Laurate	Natural Preservative (Broad-Spectrum)
NATPR0 7000	Glyceryl Undecylenate	Preservative Booster and Superfatting Agent
NATPRO A0100	Glyceryl Caprylate (and) Glyceryl Caprate (and) Glyceryl Laurate (and) Ferulic Acid	Natural Antioxidant
NATPRO AD	Cocamidopropyltrimonium methosulfate, Undecylenamidopropyltrimonium Methosulfate	Antidandruff



Coco Specialty Bases

Sufrapure

RINSE OFF | SULFATE-FREE SYSTEM

Naturally-derived surfactant system with good cleaning and foaming ability. It has excellent rinsing ability, reducing build-up that causes growth of harmful microorganisms. Mild, safe to use, and environmentally-friendly.

PRODUCT	INCI NAME	FUNCTION
SUFRAPURE SB10	Potassium Cocoate (and) Cocamide MEA (and) Cocamidopropyl Betaine (and) Glycerin (and) Cocoglycerides	Mild Soap Base
SUFRAPURE SB20	Potassium Cocoate (and) Lauryl Glucoside (and) Glycerin (and) Cocoglycerides	Tear-free Soap Base
SUFRAPURE SB30	Potassium Cocoate (and) Sodium Lauroyl Sarcosinate (and) Cocamide MEA (and) Cocamidopropyl Betaine (and) Cocoglycerides (and) Stearamidopropyl Dimethylamine Lactate	Clear Soap Base for Personal Care
SUFRAPURE SB30P	Potassium Cocoate (and) Sodium Lauroyl Sarcosinate (and) Cocamide MEA (and) Cocamidopropyl Betaine (and) Cocoglycerides (and) Stearamidopropyl Dimethylamine Lactate (and) Glycol Distearate	Pearlized Soap Base for Personal Care
SUFRAPURE SB40	Potassium Cocoate (and) Cocamide MEA (and) Sodium Citrate	Soap Base for Home Care
SUFRAPURE SB50	Potassium Cocoate (and) Sodium Lauroyl Sarcosinate (and) Cocamide MEA (and) Stearamidopropyl Dimethylamine Lactate (and) Cocoglycerides	High Foaming Soap Base
SUFRAPURE LP10	Cocamidopropyl Betaine (and) Glycerine (and) Cocoglycerides (and) Stearamidopropyl Dimethylamine Lactate (and) Cocamide MEA (and) EDTA (and) Panthenol	Low pH Surfactant Base
SUFRAPURE WP20*	Cocamide MEA (and) Lauramine Oxide	Wide pH Surfactant Base
SUFRAPURE CMB100/20	Cocamide MEA (and) Cocamidopropyl Betaine (and) Glycerin	Concentrated Foam-boosting Surfactant
SUFRAPURE PCB10	Potassium Cocoate (and) Cocamidopropyl Betaine	Neutral pH Soap Base

LEAVE ON I COLD PROCESSABLE EMULSION BLEND

Easy to use emulsion concentrates for creams and lotions. Provides extra moisture to smoothen the skin.

PRODUCT	PRODUCT INCI NAME	
SUFRAPURE LE*	Caprylic/Capric Triglyceride (and) Glyceryl Stearate (and) PEG-100 Stearate	Light Cream Base
SUFRAPURE HE*	Cocos nucifera (Coconut) Seed Butter (and) Glyceryl Stearate (and) PEG-100 Stearate	Heavy Cream Base

PROCEDURE



Recommended dosage: 30-40% *SUFRAPURE WP20, LE, HE Recommended dosage: 10-25%



Add water



Add

Preservatives: 0.1-1.0% Fragrance: 0.1-1.0% Thickener: 0.5-5.0%

Cocolatum Moisturizing Skin Protectant





Cocolatum

Moisturizing Skin Protectant

Cocolatum 501

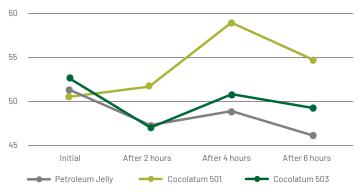
Cocoglycerides (and) Cera alba (Beeswax) (and) Euphorbia cerifera (Candelilla) Wax

Cocolatum 503

Cocoglycerides (and) Euphorbia Cerifera (Candelilla) Wax (and) Oryza Sativa (Rice) Bran Wax



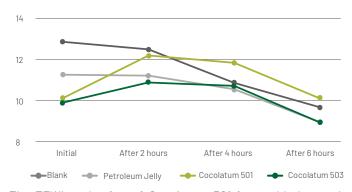
CORNEOMETER | SKIN MOISTURIZATION



As the corneometer reading increases, the level of skin moisture also increases. The depicted graph illustrates the exceptional moisturizing efficacy of Cocolatum 501.

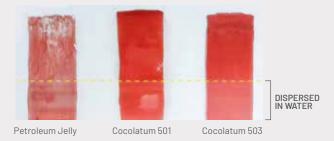
PERCENT TEWL REDUCTION

TRANSEPIDERMAL WATER LOSS



The TEWL reduction of ${\it Cocolatum~501}$ is notably lower than Petrolatum on 6 hour use. (n=15).

WASHING OFF ABILITY



The panel was immersed in a surfactant solution for 24 hours. The Cocolatum 503 sample washed off the panel most easily.

SAMPLE FORMULATION EGG LIP BALM

MATERIALS	INCI NAME	%
Cocolatum 503	Cocoglycerides (and) Euphorbia cerife (Candelilla) Wax (and) Oryza sativa (Rice) Bran Wax	ra 89.40
Candelilla Wax	Euphorbia cerifera (Candelilla) Wax	6.00
Cetyl Alcohol	Cetyl Alcohol	2.00
Glyzer CT200	Caprylic/Capric/Lauric Triglyceride	1.00
Strawberry flavor	Flavor	0.50
Cream flavor	Flavor	0.50
Vitamin E Acetate	Tocopheryl Acetate	0.50
Red 6 Lake	CI 15850	0.10
		TOTAL: 100

PROCEDURE

Load Cocolatum 503, Candelilla Wax, Cetyl Alcohol and Glyzer CT200 into a single vessel and heat.

Continuously stir during melting until temperature reaches 65°C to 70°C and until appearance becomes homogeneous.

Cool down to 40°C.

Add in the flavors and colorants and continuously stir until homogeneous and no lumps of pigment remain.

PHYSICAL APPEARANCE

Appearance	Soft solid balm
Color	Pink

COLOR DISPERSION

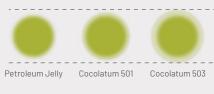


Cocolatum 503



Cocolatum 501

SPREADABILITY



The samples were applied to the filter paper and left to spread for 5 minutes. Cocolatum 501 and 503 have good spreading ability against petroleum jelly.



Glyzer CT



Coconut Triglyceride Emollients







Coconut Triglyceride Emollients

Sustainable coconut-derived light emollients, eco-friendly, and safer alternative to cyclic siloxanes. Ideal for leave-on personal care products like creams and lotions, replacing petroleum-derived mineral oil.







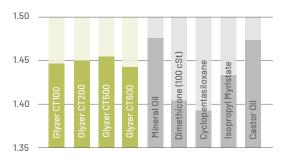
Dermatologically tested as mild and gentle

Derived from natural and sustainable raw materials Has natural antibacterial property due to Lauric acid

PHYSICO-CHEMICAL PROPERTIES

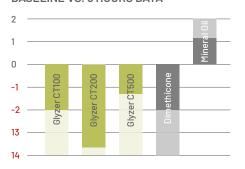
BRAND NAME	INCI NAME	DESCRIPTION
Glyzer CT100	Caprylic/Capric Triglyceride	Carrier Oil
Glyzer CT200	Caprylic/Capric/ Lauric Triglyceride	High lauric moisturizer
Glyzer CT500	Cocoglycerides	Solubilizer and dispersing agent
Glyzer CT600	Tricaprylin	Lightweight feel emollient

REFRACTIVE INDEX



The refractive index of an emollient can be related to the gloss or shine of the ingredient on the skin or in a formulation; higher refractive indices result in more gloss or

PERCENT TEWL DIFFERENCE BASELINE VS. 6 HOURS DATA



A negative change in TEWL value means a decrease in the amount of water loss by the skin, indicative of better moisture retention by use of **Glyzer CT**.

Glyzer CT range has better moisturizing property than Dimethicone and Cocoglycerides.

Glyzer CT200 has the most decrease in TEWL, hence, the best moisturizing emollient.

APPLICATION PROPERTIES

SMOOTHENING AND REPAIRING PROPERTY

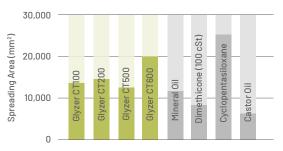


The damaged hair strand has open hair cuticles resulting in rough texture. Upon application of **Glyzer CT100**, the strands became smooth keeping hair cuticles intact.

SUNCREEN SOLUBILITY

		6% Benzop	ohenone-3	5% Avobenzone		
		Insoluble	Soluble	Insoluble	Soluble	
	Mineral Oil	0		0		
	Isopropyl Myristate		②		Ø	
	Glyzer CT600		O		②	
ts	Glyzer CT500		②		②	
Emollients	Glyzer CT200		O		②	
шo	Glyzer CT100		O		②	
Ш	Dimethicone 100 cSt	0		0		
	Cyclopentasiloxane	0		0		
	Castor Oil		②		②	

IN-VITRO SPREADABILITY



Glyzer CT100, CT200, CT500, and **CT600**, can provide medium spreading characteristic to products.

PIGMENT WETTABILITY PIGMENT DISPERSION AFTER 24 HOURS



Method: Pigment blend (20% red iron oxide) was added to the emollient sample and dispersed for 1 hour at 1000 rpm.

Result: Based on the visual evaluation of the samples, our Glyzer CT500 has a very good performance as pigment carrier, followed by Glyzer CT200 and Glyzer CT100.



♥ First Industrial Township Special Economic Zone, Brgy. Pagaspas, Tanauan, Batangas, 4232 Philippines

info@natura-aeropack.com

www.natura-aeropack.com

Township Special Economic Zone, Brgy. Pagaspas, Tanauan, Batangas, 4232 Philippines

info@natura-aeropack.com

Township Special Economic Zone, Brgy. Pagaspas, Tanauan, Batangas, 4232 Philippines

info@natura-aeropack.com

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info@natura-aeropack.com

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info@natura-aeropack.com

Township Special Economic Zone, Brgy. Pagaspas, Tanauan, Batangas, 4232 Philippines

info@natura-aeropack.com

Township Special Economic Special Economic Zone, Brgy. Pagaspas, Tanauan, Batangas, 4232 Philippines

Info@natura-aeropack.com

Township Special Economic Zone, Brgy. Pagaspas, Tanauan, Batangas, 4232 Philippines

Info@natura-aeropack.com

Township Special Economic Special Economic



Glyzer CB100 Coconut Butter





Glyzer CB100

COCOS NUCIFERA (COCONUT) SEED BUTTER

Natural coconut butter for intensive moisturization. Can be used for skin care and hair care products like body butter, body wash, hair conditioner, lip balm, etc.



Lowers transepidermal water loss of the skin



Coconut-derived emollient



LIGHT COLOR Does not affect the color of the end product



FRAGRANCE No coconut smell



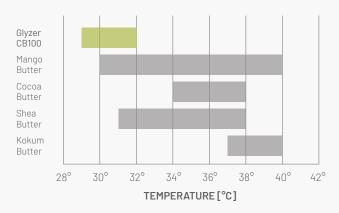
Stays on top of the skin and non-greasy



MELTS ON SKIN Low melting point, closer to body temperature

PHYSICO-CHEMICAL PROPERTIES

MELTING POINT RANGE



Glyzer CB100 has lower melting point than the rest of the samples. Given its lower melting temperature means it can be easily spread on skin and will impart less greasy feel.

FUNCTION



Glyzer CB100 Shea Butter

The lower the TEWL value, the better the skin's ability to hold moisture.

Lotion with Glyzer CB100 has lower TEWL than the lotion with Shea Butter. This means that Glyzer CB100 can improve skin's ability to retain moisture.

SAMPLE FORMULATION

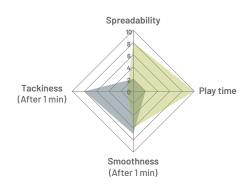
MOISTURIZING BAR CONDITIONER

IN	GREDIENIS	INCINAME	FUNCTION	%
	Glyzer CB100	Cocos nucifera (Coconut) Seed Butter	Emollient	42.30
⋖	Cetyl Alcohol	Cetyl Alcohol	Emulsifier	40.00
hase	Behentrimonium Chloride	Behentrimonium Chloride	Antistatic agent	5.00
교	Glyzer CT100	Caprylic/Capric Triglyceride	Emollient	5.00
	Dicaprylyl Ether	Dicaprylyl Ether	Emollient	5.00
<u>a</u>	Sunflower Oil	Helanthius annuus (Sunflower) Seed Oil	Active ingredient	1.00
hase	Fragrance	Parfum	Parfum	1.20
Δ.	Vitamin E	Tocopherol	Antioxidant	0.50
				100.00

INICINIAME

SENSORY EVALUATION

GLYZER CB100 VS. SHEA BUTTER



- Body Lotion (with Shea Butter)
- Body Lotion (with Glyzer CB100)

PROCEDURE

INCREDIENTO

In a clean container, load Glyzer CB100, Cetyl Alcohol, Behentrimonium Chloride, Glyzer CT100 and Dicaprylyl Ether. Heat to 80°C-85°C. Mix until fully melted. Mix to cool down to 50°C - 55°C temperature.

Add Sunflower Oil. Mix until homogenous while maintaining the 50°C - 55°C temperature.

Add fragrance. Mix until homogenous.

Add Vitamin E. Mix until homogenous. Transfer to the desired packaging.

Glyzer CE Fast-spreading Emollient





COSMOS APPROVED

Excellent pigment dispersant

Outstanding UV filter solubilizer

Natural & sustainable







Glyzer CE Fast-absorbing Emollient

Glyzer CE is a portfolio of clear, low-viscous emollients that provide a light & non-sticky skin feel. A 100% natural emollient acts as a caring emollient with high spreadability and quick absorption on the skin. It is non-toxic, non-irritating, fully biodegradable, and environmentally friendly.

> Fast-spreading and high-performing 9



Derived from natural and sustainable raw materials



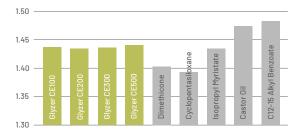
Readily biodegradable (\)



PHYSICO-CHEMICAL PROPERTIES

BRAND NAME	INCI NAME	DESCRIPTION	BODY CARE	FACE CARE	SUN CARE	HAIR CARE	COLOR COSMETICS	LIP CARE	
Glyzer CE100	Coco Caprylate	Dry-touch emollient	•	•			Ø		
Glyzer CE200	Isoamyl Laurate	Lightweight emollient							
Glyzer CE300	Coco Caprylate / Caprate	Silky-feel emollient	•		•		•		
Glyzer CE500	Butylene Glycol Dicaprylate / Dicaprate	Fast-spreading light emollient	•	•			•	•	

REFRACTIVE INDEX



Refractive index is the value given to emollients for their potential to add a gloss or on the finished product. Our Glyzer CE lines can give a healthy shine on applied surface.

SENSORY PROFILE



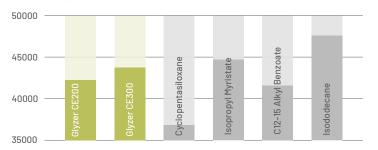
We evaluated the sensory profile of Glyzer CE in comparison to cyclopentasiloxane (D5). Glyzer CE200 and CE300 deliver a luxurious feel with a light touch of waxiness, extended playtime, and a lasting effect on the skin. They offer a silicone-like glide with low stickiness and leave a non-greasy, and a non-tacky finish.

SUNCREEN SOLUBILITY

		5% Avobenzone		
		Insoluble	Soluble	
	Glyzer CE100		Ø	
	Glyzer CE200		Ø	
	Glyzer CE300		Ø	
ts	Glyzer CE500		Ø	
Emollients	Isopropyl Myristate		Ø	
mo	C12-15 Alkyl Benzoate		Ø	
Ш	Isododecane	0		
	Castor Oil	0		
	Mineral Oil	0		
	Dimethicone	0		
	Cyclopentasiloxane	0		

Glyzer CE100, CE200, CE300, and CE500 is an excellent emollient for solubilizing organic UV filters, effectively enhancing stability, and ensuring efficacy in formulations. Extensive testing showed no signs of recrystallization, making it an ideal choice for maintaining the quality and performance of sunscreen products.

IN VITRO SPREADABILITY



Glyzer CE200 and CE300 are vegetable oil-free emollients that can provide a similar silicone profile that is light, highly spreadable, and non-greasy or non-oily sensory feel.

PIGMENT WETTABILITY







Cyclopentasiloxane

Isododecane

Glyzer CE300

Emollients play a crucial role in color development; selecting the right emollients enhances color yield, reduces dosage per target shade, and improves color stability and compatibility. Compared to silicone, Glyzer CE300 and CE500 offer superior pigment dispersibility and wettability.





First Industrial Township Special Economic Zone, Brgy. Pagaspas, Tanauan, Batangas, 4232 Philippines

Sufravon

Plant-based Cleansing Surfactant









Plant-based Cleansing Surfactant

PRIMARY SURFACTANT I ANIONIC SURFACTANT

Sufravon functions as a primary or secondary surfactant - making it an excellent component in personal and home care formulations.

FEATURES AND BENEFITS



Exceptional foaming & cleansing propertiés



Compatible with a wide range of surfactants



Easy to rinse, less water usage



Excellent stain removing property

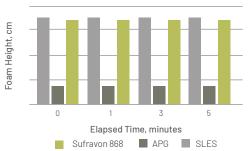
APPLICATIONS

- Baby Soap
- Hand Soap
- Shampoo
- Liquid Body Soap
- Homecare Formulation

SUFRAVON VARIANTS

PRODUCTS	SUFRAVON 874*	SUFRAVON 868*	SUFRAVON 890*	SUFRAVON 875
INCI Name	Potassium Cocoate	Potassium Cocoate	Potassium Cocoate (and) Olivate	Potassium Laurate (High Lauric Acid)
Main Composition	C12 - C18 Coconut Fraction	Coconut Oil	Coconut Oil (and) Olive Oil	Coconut Oil
рН	9 - 11	9.5 - 10.5	9 - 11	9.5 - 10.5
Applications	Home Care	Home Care, Personal Care	Personal Care, Baby Care, Pet Care	Personal Care

FOAM HEIGHT OF SUFRAVON 868 VS. SLES AT 1% SOLUTION



(Surfactant Actives: 10.5% Test Sample | 3% CAPB | 2% CDEA)

The foam height generated using Sufravon 868 is comparable to the foam generated using SLES, in contrast APG generated very minimal foam.

SUFRAVON 868 SENSORY EVALUATION

AS PRIMARY SURFACTANT IN LIQUID HAND SOAP



- ▲ Sufrayon 868
- ◆ APG
- SLES

SL-REV-01-2025_U&I

The foaming property of Sufravon 868 is comparable to SLES. Skin moisturization and smoothness of Sufravon 868 are comparable to APG.

MOISTURE RETENTION OF SUFRAVON 890



Sufravon 890 hand soap outperforms the SLES-based alternative, maintaining higher skin moisture levels from baseline to the 4th hour based on the Corneometer reading.

NATURA AEROPACK

CORPORATION

SKIN pH UPON APPLICATION OF SUFRAVON 890



Sufravon 890 preserves the normal skin pH, ranging between 4.7 and 5.75.



Sufrasoft AO

Amine Oxide Surfactant



Sufrasoft AO

Amine Oxide Surfactant

AMPHOTERIC FOAM BOOSTER & VISCOSITY BUILDER

Sufrasoft AO is a coconut-derived amphoteric surfactant with excellent foam boosting and viscosity building ability even in hard water. It can be used in a wide range of pH and is compatible with all types of surfactants, making it ideal for both personal and home care applications.



VARIANT	INCI NAME	RECOMMENDED DOSAGE
SUFRASOFT A0100	Cocamidopropylamine Oxide	0.5% - 15.0%
SUFRASOFT A0200	Lauramine Oxide	0.5% - 15.0%
SUFRASOFT A0250	Cocamine Oxide	0.5% - 15.0%

FORMULATION COMPATIBILITY

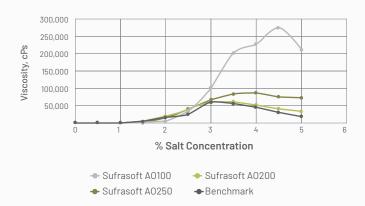
VARIANT	ACID STABLE	ALKALI STABLE	HYDROGEN PEROXIDE COMPATIBLE	SODIUM HYPOCHLORITE COMPATIBLE
Sufrasoft A0100			Ø	
Sufrasoft A0200	Ø		Ø	Ø
Sufrasoft A0250		•	•	⊘

FOAM HEIGHT (1% SOLUTION)



Sufrasoft A0200 has the highest foam among all the samples. Stable foam height was observed for all the samples tested.

SALT CURVE PROFILE



The system with Sufrasoft A0100 has the highest viscosity with the addition of 4.5% of salt. Second to the highest is Sufrasoft A0250, while Sufrasoft A0200 the benchmark samples are comparable.



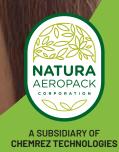
Neosoft

Cationic Conditioning Surfactant

Does not build up on hair

Reduces hair static

Compatible with a wide range of surfactants





Cationic Conditioning Surfactant

Neosoft is a plant-based hair conditioning active. It is a cold-processable conditioning active for hair conditioner, conditioning shampoo and hair mask formulations. Delivered in liquid form for easy addition in the formulation.



PHYSICO-CHEMICAL PROPERTIES

BRAND	INCINAME	SOURCE	DOSAGE	% ACTIVE
Neosoft SD	Stearamidopropyl Dimethylamine Lactate	Palm	2 - 10 %	20% min
Neosoft CD	Cocamidopropyl Dimethylamine Lactate	Coconut	0.5 - 5 %	90% min
Neosoft CQ90	Dicocoylethyl hydroxyethylammonium Methosulfate (and) Cocoglycerides (and) Butylene Glycol	Coconut	0.4 - 2.0%.	95% min



SMOOTHENS HAIR

Lessens hair static & makes hair more manageable



NO BUILD UP

Easy to remove with shampoo and does not build up on hair & scalp



EASY TO USE

Liquid at room temperature and water soluble



TREATS HAIR

Closes hair cuticle for more tamed hair shaft



FRAGRANCE-FREE

Odorless
*Neosoft SD only

hair cuticle.



NON-TACKY

Light & non-greasy. Does not weigh hair down

HAIR CONDITIONING PROPERTIES SENSORY EVALUATION

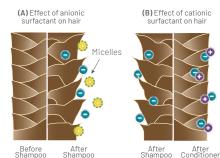
DOSAGE USED BASED ON RECOMMENDED DOSAGE

Neosoft SD	12.5
Neosoft CD	3.0
CTAC	5.0
BTAC	2.5
Neosoft CQ90	2.5

Polyquaternium 10 (PQ-10) 0.5 Stearamidopropyl 2.5 Dimethylamine (SAPDA) Blank

NO. OF PANELISTS: 7

MECHANISM OF ACTION

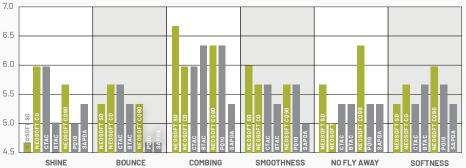


The effect of anionic and cationic surfactants on the

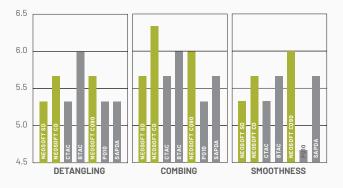
(A) Anionic surfactants in shampoo may cause the hair cuticles to slightly open, this is due to the surplus of negative charges generating static electricity leading to frizz and friction.

(B) Cationic surfactant (Neosoft CD) releases a positive charge that neutralizes the negative charge on the hair cuticle forming a neutral, hydrophobic, cationic-anionic complex. This reduces the static electricity and relaxes the hair cuticle, making it smooth and less frizzy.

WET HAIR PROPERTIES



DRY HAIR PROPERTIES



Hair Tresses were carefully washed and applied with a simple hair conditioner formulation with different conditioning ingredients. The Wet and Dry Hair Parameters were tested by our in-house sensory panel, and the results were determined. Neosoft CD and CO90 has superior performance in Wet Hair, while Neosoft SD and CO90 has superior performance as well in Dry Hair. Overall the performance of Neosoft is on par with CTAC and BTAC, and they also have synergistic effect with them.

COMBING FORCE (IN NEWTONS)



Different hair conditioning actives were tested on a hair tress and combed, and the force used to combed was measured by a force meter. The lower the force, the less effort need to comb through the hair, and therefore better and smoother combability.

Pearlux PB

Pearlizing Agent





Pearlizing Agent

LIQUID

PEARLUX PB10*

Potassium Cocoate (and) Glycol Distearate (and) Cocamide MEA Sulfate, PEG, and EO-free

PEARLUX PB40

Glycol Distearate (and) Sodium Laureth Sulfate (and) Laureth-10 (and) Cocamide MEA Optimum pearlizing effect

PEARLUX PB20*

Potassium Cocoate (and) Glycol Distearate (and) Cocamide MEA (and) Laureth-10 Sulfate and PEG-free, provides more opaque and pearlizing effect

*Sulfate-free

SOLID

PEARLUX EGDS

Glycol Distearate

Superior pearlizing agent compatible with a wide range of surfactants

PEARLUX EGMS

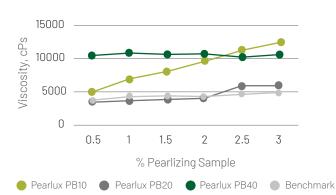
Glycol Stearate

Opacifying agent compatible with a wide range of surfactants

FEATURES & BENEFITS

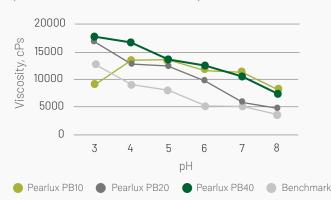
- Offers smooth luster and shimmering effect on personal care and cosmetic products
- Enhances product viscosity
- Can be used in a wide range of pH
- Environmentally friendly

VISCOSITY PROFILE IN SLES SURFACTANT SYSTEM (15% SLES / 5% Betaine / 5% CMEA)



The viscosity of the system increases as the amount of Pearlux PB10, Pearlux PB20, and Benchmark increases. Pearlux PB10 has the highest viscosity among the three samples.

VISCOSITY PROFILE AT DIFFERENT PH (15% SLES / 5% Betaine / 5% CMEA)



The viscosity of the surfactant system decreases as the pH of the sample becomes more basic

DEGREE OF WHITENESS



Darker	Lighter
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FORMULATION

CONDITIONING PEARLIZED SHAMPOO

MATERIALS	INCI NAME	% %
Water	Aqua	q.s
Polyquat-10	Polyquaternium-10	0.50
Glysoft SF	Cocoglycerides	1.00
Methylglycinediace Acid	tic Methylglycinediacetic Acid	0.10
Sufrasoft A0100	Cocamidopropylamine Oxide	8.00
Sufrasoft HS100	Cocamidopropyl Hydroxysultaine	20.00
Suframide 307	Cocamide Methyl MEA	2.0
Phenoxyethanol (an Ethylhexylgycerin	d) Phenoxyethanol (and) Ethylhexylgycerin	0.80
Fragrance		0.60
Citric Acid	Citric Acid	0.20
Pearlux PB10	Potassium Cocoate (and) Glycol Distearate (and) Cocamide MEA	2.00

TOTAL: 100

PROCEDURE

In a clean container, disperse Polyquat-10 in water, then mix Glysoft SF, and Methylglycinediacetic Acid until homogeneous. Expect rise in viscosity.

Load Sufrasoft A0100, Sufrasoft HS100, and Surfamide 307 one at a time with gentle mixing to prevent bubble formation.

Lastly, add Phenoxyethanol (and) Ethylhexylgycerin , Fragrance, Citric Acid and, Pearlux PB10. Mix until homogeneous.



Sufraquat FS

Coconut-Derived Esterquat



Sufraquat FS

Coconut-Derived Esterquat

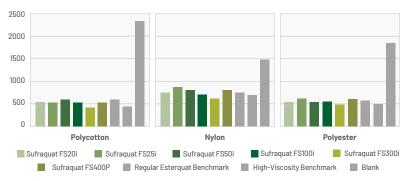
DIALKYLESTER AMMONIUM METHOSULFATE

Coconut-derived esterquat used as an active for fabric softener. It provides excellent smoothness on various types of fabric by getting rid of static. It does not build up on clothes, promoting good rewetting ability.



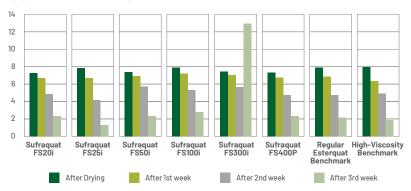
VARIANTS	DOSAGE	VISCOSITY	END-PRODUCT APPEARANCE
Sufraquat FS20i		Regular	Milky Opaque White
Sufraquat FS25i		Low	Slightly Translucent
Sufraquat FS50i		Low	Slightly Translucent
Sufraquat FS100i		Regular	Milky Opaque White
Sufraquat FS300i		High	Semi-Translucent Milky Liquid
Sufraquat FS400P		Low	Clear liquid (in ultra pure formulations)

ANTISTATIC



The fabrics, washed using a standard industrial process, were treated with fabric softeners at a dosage of 0.5% quat based on the wash load. Ultra Stable Surface DC Volt Meter (USSVM2) was then used to measure the static charge, in volts, at a distance of 1 cm from the fabric surface. Sufraquat FS300i exhibited the best static reduction among the different fabric types.

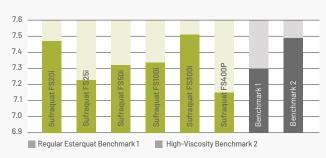
SCENT RETENTION



After three weeks of sensory evaluation of fluffy towels treated with fabric softeners (0.5% quat per wash load), Sufraquat FS300i exhibited the best scent retention. The other esterquats performed similarly.

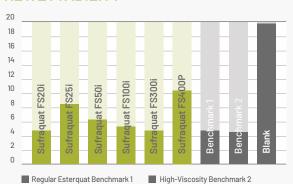
Scores by 15 Respondents in Fluffy Towels (at 0.3% Quat per mass of the fabrics)

SOFTNESS



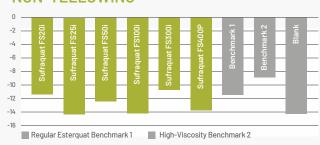
Fluffy towels treated with the fabric softeners were evaluated by a panel of 20 trained sensory panelists. Sufraquat FS300i demonstrated the best softening properties, followed by Sufraquat FS20i. Both Sufraquat FS50i and Sufraquat FS100i matched the softness level of the regular esterquat benchmark.

REWETTABILITY



Rewettability was tested using a dyed water capillary experiment on polycotton fabric strips. Sufraquat FS400P and Sufraquat FS25i exhibited outstanding performance in this parameter, while the other Sufraquat variants outperformed the benchmarks.

NON-YELLOWING



Polycotton fabric swatches were treated in 20 cycles of washing and fabric softener application. The yellowness index of the fabrics was then measured using a spectrophotometer. They all exhibited negative values, indicating that they were not stained appreciably by the fabric softeners. The Sufraquat variants, meanwhile, exhibited a lower yellowness index than the benchmarks.



Sufraquat BK

Coconut-Derived Disinfectant

Potent broad-spectrum disinfectant

Compatible for various surfaces

Safe and easy to use







Sufraquat BK

Coconut-Derived Disinfectant

BENZALKONIUM CHLORIDE

Potent, long-lasting, and broad-spectrum disinfecting active based on quaternary benzalkonium chloride salt. It is coconut-derived, biodegradable, and non-toxic to users and the environment. **Sufraquat BK** is optimal for cleaning facilities, equipment, and surfaces.

APPLICATIONS







Home Cleaning Products & Toiletries



Restaurants and other I&I

FEATURES & BENEFITS



Highly effective with short contact time



Easy to use and incorporate in formulations



Safe to use and mild on skin



Plant-Based



araben Cruelty-Fro

VARIANT
SUFRAQUAT BK80
SUFRAQUAT BK50

PERCENT A	ACTIVE
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80% Active

50% Active

RECOMMENDED DOSAGE

0.125% | 0.025%* 0.2% | 0.04%*

*For no-rinse application in food industry

THIRD PARTY LABORATORY TEST RESULTS

TEST ORGANISM	CFU/ML (CONTROL)	CFU/ML AT 5 MINUTES CONTACT TIME	% KILL
Escherichia coli ATCC 25922	6.6 x 10 ⁸	<1	99.99%
Pseudomonas aeruginosa ATCC 19429	8.4 x 10 ⁹ est	24	99.99%
Staphylococcus aureus ATCC 12600	1.4 x 10 ⁹	<1	99.99%
Salmonella enterica ATCC 14028	1.1 x 10 ¹⁰ est	<1	99.99%
Listeria monocytogenes ATCC 19115	1.0 x 10 ¹⁰ est	<1	99.99%







NatPro8000

Natural Preservative



Potent antimicrobial active

Multifunctional

Plant-based







A SUBSIDIARY OF CHEMREZ TECHNOLOGIES

NatPro 8000

Broad-spectrum Preservative & Refatting Agent

GLYCERYL CAPRYLATE (AND) GLYCERYL CAPRATE (AND) GLYCERYL LAURATE

NatPro 8000 is a broad-spectrum natural preservative and antimicrobial active. This material is a multi-functional ingredient since it also imparts skin refattening and moisturizing. This product is also a natural solution to replace and to boost the efficacy of regulated preservatives such as isothiozolines, benzyl benzoate, hydantoins, and phenoxyethanols. NatPro 8000 is clinically proven to be mild, gentle, and, hypoallergenic.

FEATURES AND BENEFITS



Natural preservative



Natural co-emulsifier & superfatting active



Effective at pH range of 4.0 – 7.0



Light color and

THIRD PARTY LABORATORY TEST RESULT

DETERMINATION OF MINIMUM INHIBITION CONCENTRATION

CONCENTRATION	BACILLUS SP. (From Cosmetics)	S. AUREUS	E. COLI	K. PNEUMONIEA	E. AEROGENES	C. ALBICANS
2.00%	-	-	-	-	-	-
1.50%	-	-	-	-	-	-
1.00%	-	-	-	-	-	-
0.70%	-	-	-	-	-	-
0.50%	-	-	-	-	-	-
0.00%	+	+	+	+	+	+

Minimum inhibitory concentration of **NatPro 8000** against 6 most common microbes that cause cosmetic formulation spoilage. The microdilution method was employed in this study.

ENHANCING THE SKIN'S BARRIER AND MOISTURE



The graph above illustrates the Trans-epidermal Water Loss (TEWL) data resulting from hourly hand washing using soap samples, both with and without the inclusion of **Natpro 8000**. The data is presented as a percentage change, wherein lower TEWL values indicate improved skin moisture retention and a stronger skin barrier function.

10% Potassium Soan with 0.5%

Coconut-derived Antimicrobial Active

AS ACTIVE FOR ALCOHOL-FREE DISINFECTANTS

A 1% solution of **NatPro 8000** exhibits a consistent 100% bactericidal efficacy against common hand bacteria, including dangerous pathogens such as *Klebsiella pneumoniae* and *Escherichia coli*. These findings underscore its effectiveness as a reliable antibacterial agent, offering a dependable solution for robust hand hygiene and maximum protection.

SAMPLE FORMULATION

ALCOHOL-FREE SANITIZER

MATERIALS	INCI NAME	%
Water	Aqua	q.s
NatPro 8000	Glyceryl Caprylate (and) Glyceryl Caprate (and) Glyceryl Laurate	1.25
Solubilizer	PEG-40 Hydrogenated Castor Oil	1.35
Fragrance		0.10
	TOT	AL: 100

PROCEDURI

Load NatPro 8000, PEG-40 Hydrogenated Castor Oil and the fragrance in a clean container.

SL-REV-01-2025_U&I

Homogenize the bulk.

Load water in the container.

Mix until a translucent consistency is obtained.





10% Potassium Soap only

Sufravon SN100

Coconut-based Soap Noodles



Sufravon SN100

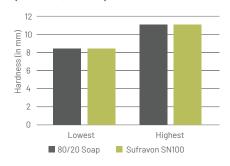
Coconut-based Soap Noodles

SODIUM COCOATE

Sufravon SN100 is a 100% coconut-derived soap noodles. It contains natural glycerin from coconut oil that acts as a humectant to balance and maintain the natural moisture of the skin. It can be used in the formulation of different toiletries and beauty bar soaps. It produces white, creamy, and fine lather.



BAR SOAP HARDNESS (PENETROMETER)



From three penetrometer measurements, the minimum and maximum values were taken to assess hardness. Both bar soap samples produced identical minimum and maximum readings, indicating they are comparable in terms of hardness.

While there is no fixed range that determines the optimal soap hardness, it is an indication of the soap's malleability when held by consumers and the quality of the final product.

MUSHINESS



	Sufravon SN100	80/20 Soap
Initial Weight of Bar	132.20	129.90
Final Weight of Bar	123.75	121.44
Weight of Mush	8.45	8.46
Mush Weight Fraction	0.06	0.07
% Difference	-6.39	-6.51

It is noted that **Sufravon SN100** bar soap is much softer after the first few hours of immersion, but the amount of mush is the same after 24 hours even for the 80/20 bar soap.

CRACKING EVALUATION





According to the bar soap evaluations, **Sufravon SN100** received a face cracking score of 1, which is considered <u>acceptable</u>.

FOAM STRUCTURE





	Sufravon SN100	80/20 Soap
Bubble Count/mm^2	43.003	41.372
Mean Bubble Area (in μ^2)	23254	24171
Min. Bubble Area (in μ^2)	4832	4832
Max. Bubble Area (in μ^2)	188531	493402

Using DFA 100 Dynamic Foam Analyzer, we compared the foam characteristics of Sufravon SN100 and 80/20 soap noodles. Sufravon SN100 can give you creamier foam with smaller bubbles even after 5 minutes of use.

APPLICATIONS







80/20 Soap

2 Translucent Solid Products
Procedure: Melt and pour



3 Liquid Concentrate Procedure: Heating



Scan the QR code to view examples of formulations.



