

# Clean. Green. Sustainable

Ethically sourced  
ingredients



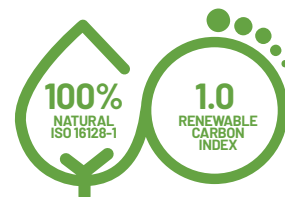
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# Coco Surfactant

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



## SULFATE-FREE CLEANSERS PRIMARY SURFACTANTS



### SUFRAVON 874

C12 - C18 Coconut Fraction  
Home Care Formulations

### SUFRAVON 875

Potassium Laurate  
Personal Care Formulations

### SOLID

#### SUFRAVON SN100 (SOAP NOODLES)

Sodium Cocoate  
Personal/Home Care Formulations

### SUFRAVON 868

Potassium Cocoate  
Personal/Home Care Formulations

### SUFRAVON 890

Potassium Cocoate (and)  
Potassium Olivates  
Personal 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 182/190/191

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

#### SUFRAMIDE 400/400L

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

#### SUFRAMIDE LD

Lauramide DEA  
90% Active  
EO-free

#### SUFRAMIDE 301/300/305

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

#### SUFRAMIDE LM

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

## MILD WASHES

### WIDE PH RANGE SURFACTANTS

#### SUFRASOFT CB30

Cocamidopropyl Betaine  
30% Active

#### SUFRASOFT CB140

Cocamidopropyl Betaine  
30% Active (Glycerin-free)

#### SUFRASOFT CB45

Cocamidopropyl Betaine  
40% Active

#### SUFRASOFT LB30

Lauramidopropyl Betaine  
30% Active

#### SUFRASOFT CB30LS

Cocamidopropyl Betaine  
30% Active (Low Salt)

#### 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

# Coco Functional Ingredients

Expertly customized functional ingredients that enhance product quality and appearance to achieve aesthetically pleasing sensory qualities and remarkable results.

## SPECIAL FEATURES

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

### GLYSOFT RG\*

Glycerin  
100% Coconut-derived glycerin

### GLYSOFT SF\*

Cocoglycerides  
Superfating and superior thickening agent

### NEOSOFT SD/CD\*

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

### NEOSOFT CQ90

Dicocoyl ethyl Hydroxyethyl ammonium 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 Stearate  
Opacifying agent compatible with a wide range of surfactants



Talk to our experts:  
[info@natura-aeropack.com](mailto:info@natura-aeropack.com)  
[www.natura-aeropack.com](http://www.natura-aeropack.com)



Learn more about our sustainable ingredients

Natura Aeropack Corporation

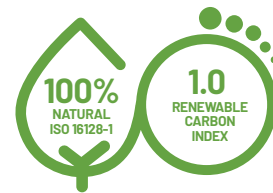
**NATURA AEROPACK**  
CORPORATION

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✉ [info@natura-aeropack.com](mailto:info@natura-aeropack.com) 🌐 [www.natura-aeropack.com](http://www.natura-aeropack.com) Natura Aeropack Corporation

# Coco Emollients

## PETROLEUM-FREE MOISTURIZER

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



## Cocolatum

SKIN PROTECTANT



PRODUCT	INCI NAME	FUNCTION	APPLICATION
COCOLATUM 501	Cocoglycerides (and) <i>Cera alba</i> (Beeswax) (and) <i>Euphorbia cerifera</i> (Candelilla) Wax	Improves moisture barrier	Moisturizer, Ointment, Lubricant, Hand Balm, Body Butter
COCOLATUM 503	Cocoglycerides (and) <i>Oryza sativa</i> (Rice) Bran Wax (and) <i>Euphorbia cerifera</i> (Candelilla) Wax	100% plant-derived for intense moisturization	Moisturizer, Ointment, Lubricant

## Glyzer CB100



### SKIN-SOFTENING BUTTER

PRODUCT	INCI NAME	FUNCTION	APPLICATION
GLYZER CB100	<i>Cocos nucifera</i> (Coconut) Seed Butter	Skin moisturizer	Body Butter, Body Wash, Hair Conditioner, Lip Balm

## Glyzer CT



### 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	<i>Cocos nucifera</i> (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

Scan to view  
Emollients Matrix



## Glyzer CE



### FAST-ABSORBING EMOLLIENT

PRODUCT	INCI NAME	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 / dicaprate	Fast-spreading light emollient	Skin Care, Sun Care, Decorative Cosmetics

## 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
NATPRO 7000	Glyceryl Undecylenate	Antifungal and antimicrobial
NATPRO 8000	Glyceryl Caprylate (and) Glyceryl Caprate (and) Glyceryl Laurate	Natural Preservative (Broad-Spectrum)
NATPRO AD	Cocamidopropyltrimonium methosulfate, Undecylenamidopropyltrimonium Methosulfate	Antidandruff
NATPRO A0100	Glyceryl Caprylate (and) Glyceryl Caprate (and) Glyceryl Laurate (and) Ferulic Acid	Natural antioxidant



More than a factory  
**A green philosophy**  
Game changing facilities  
**Towards carbon neutral**

# 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 CMB100/200	Cocamide MEA (and) Cocamidopropyl Betaine (and) Glycerin	Concentrated Foam-boosting Surfactant
SUFRAPURE PCB10	Potassium Cocoate (and) Cocamidopropyl Betaine	Neutral pH Soap Base

### LEAVE ON | COLD PROCESSABLE EMULSION BLEND

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

PRODUCT	INCI NAME	FUNCTION
SUFRAPURE LE*	Caprylic/Capric Triglyceride (and) Glyceryl Stearate (and) PEG-100 Stearate	Light Cream Base
SUFRAPURE HE*	<i>Cocos nucifera</i> (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%

1

2

3

# Cocolatum

## Moisturizing Skin Protectant

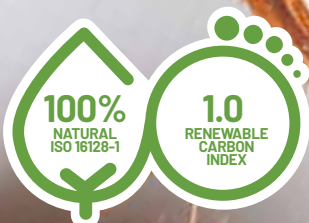


COSMOS APPROVED

Extra moisturizing

Does not build up  
on skin

With natural  
antibacterial property



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Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard.

# Cocolatum

## Moisturizing Skin Protectant

### Cocolatum 501

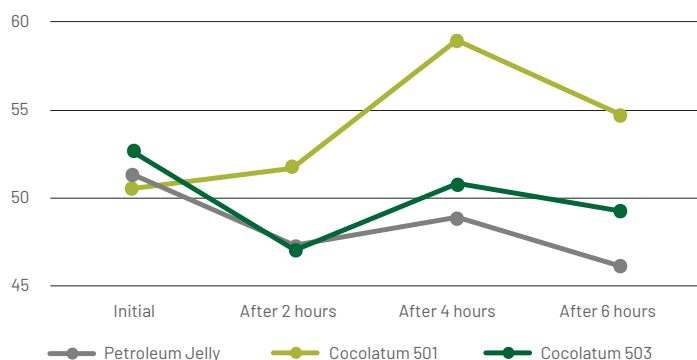
Cocoglycerides (and) *Cera alba* (Beeswax)  
(and) *Euphorbia cerifera* (Candelilla) Wax

### Cocolatum 503

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



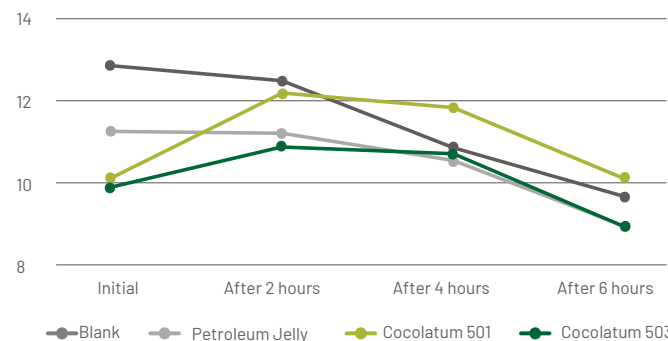
## CORNEOMETER | SKIN MOISTURIZATION



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



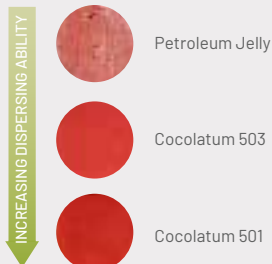
The TEWL reduction of Cocolatum 501 is notably lower than Petrolatum on 6 hour use. (n=15).

## WASHING OFF ABILITY



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

## COLOR DISPERSION



## 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.

## SAMPLE FORMULATION

### EGG LIP BALM

MATERIALS	INCI NAME	%
Cocolatum 503	Cocoglycerides (and) <i>Euphorbia cerifera</i> (Candelilla) Wax (and) <i>Oryza sativa</i> (Rice) Bran Wax	89.40
Candelilla Wax	<i>Euphorbia cerifera</i> (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

# Clyzer CT

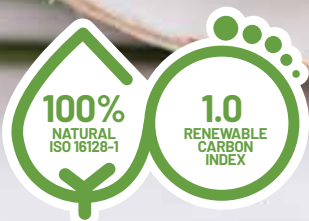
Coconut Triglyceride Emollients



Light and non-tacky

Mild and moisturizing

Excellent solubilizer and dispersing agent



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Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard.



# Glyzer CT

## 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

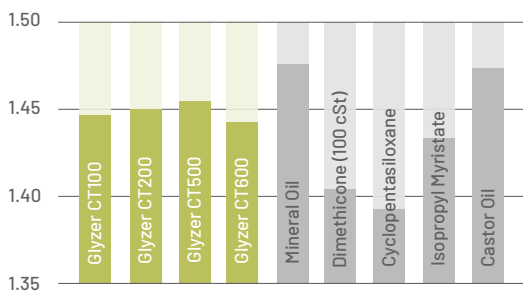


Has natural antibacterial property due to Lauric acid

## PHYSICO-CHEMICAL PROPERTIES

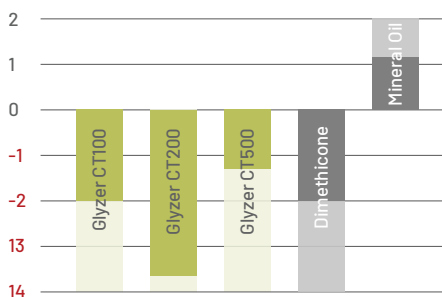
BRAND NAME	INCI NAME	DESCRIPTION
Glyzer CT100	Caprylic/Capric Triglyceride	Carrier Oil
Glyzer CT200	Caprylic/Capric/Lauric Triglyceride	High Lauric Moisturizer
Glyzer CT500	Cocoglycerides	Solubilizer and Dispersing Agent
Glyzer CT600	Tricaprylin	Lightweight Feel Emollient

## 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 shine.

## PERCENT TEWL REDUCTION 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.

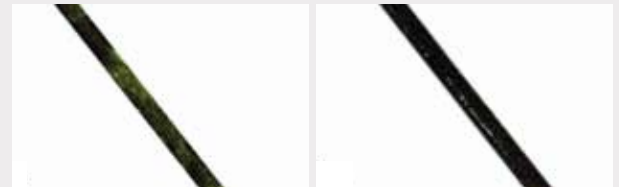
**Glyzer CT200** has the most decrease in TEWL, hence, the best moisturizing emollient.

## APPLICATION PROPERTIES

### SMOOTHENING AND REPAIRING PROPERTY

BEFORE APPLICATION

AFTER APPLICATION

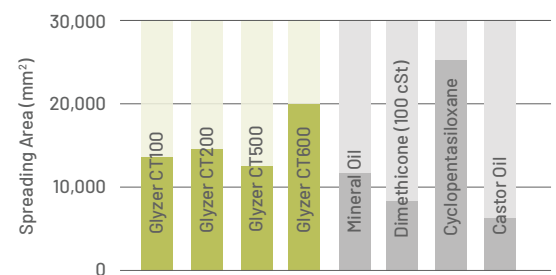


The damaged hair strand has open hair cuticles resulting in rough texture. Upon application of **Glyzer CT100**, the strands became smooth keeping hair cuticles intact.

## SUNSCREEN SOLUBILITY

	6% Benzophenone-3		5% Avobenzone	
	Insoluble	Soluble	Insoluble	Soluble
Mineral Oil	○		○	
Isopropyl Myristate		✓		✓
Glyzer CT600		✓		✓
Glyzer CT500		✓		✓
Glyzer CT200		✓		✓
Glyzer CT100		✓		✓
Dimethicone 100 cSt	○		○	
Cyclopentasiloxane	○		○	
Castor Oil		✓		✓

## 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.

# Clyzer CB100

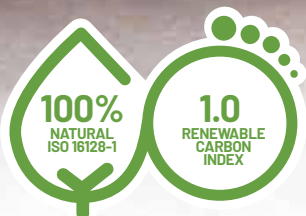
## Coconut Butter



Mild and moisturizing

Melts on the skin

Light colored and  
odorless



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# 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.



### MOISTURIZING

Lowers transepidermal water loss of the skin



### NATURAL

Coconut-derived emollient



### LIGHT COLOR

Does not affect the color of the end product



### FRAGRANCE FREE

No coconut smell



### NON-TACKY

Stays on top of the skin and non-greasy

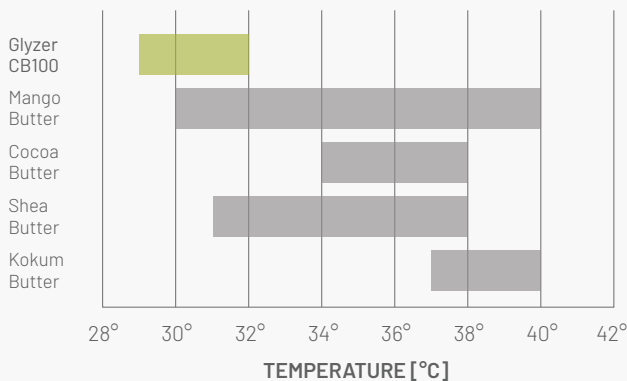


### MELTS ON SKIN

Low melting point, closer to body temperature

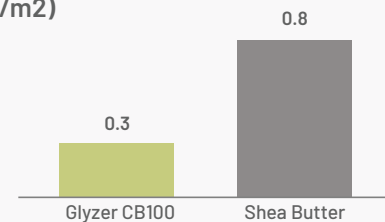
## PHYSICO-CHEMICAL PROPERTIES

### 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.

### PERCENT TEWL MEASUREMENT (g/h/m<sup>2</sup>)



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

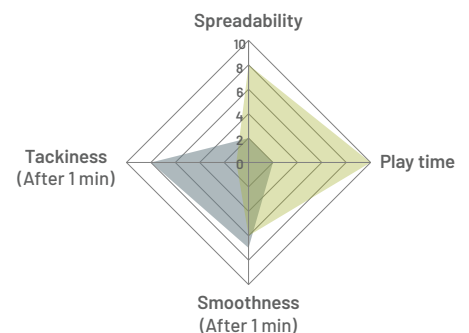
INGREDIENTS		INCI NAME	FUNCTION	%
Phase A	Glyzer CB100	Cocos nucifera (Coconut) Seed Butter	Emollient	42.30
	Cetyl Alcohol	Cetyl Alcohol	Emulsifier	40.00
	Behentrimonium Chloride	Behentrimonium Chloride	Antistatic agent	5.00
	Glyzer CT100	Caprylic/Capric Triglyceride	Emollient	5.00
	Dicaprylyl Ether	Dicaprylyl Ether	Emollient	5.00
Phase B	Sunflower Oil	Helanthus annuus (Sunflower) Seed Oil	Active ingredient	1.00
	Fragrance	Parfum	Parfum	1.20
	Vitamin E	Tocopherol	Antioxidant	0.50
				100.00

### PROCEDURE

- 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.

## SENSORY EVALUATION

### GLYZER CB100 VS. SHEA BUTTER



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

# Clyzer CE

Fast-absorbing Emollient

SILICONE AND  
MINERAL OIL  
ALTERNATIVE

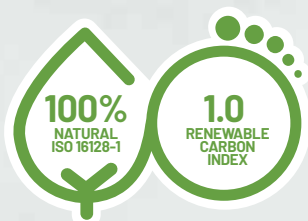


COSMOS APPROVED

Excellent pigment  
dispersant

Outstanding UV filter  
solubilizer

Natural & sustainable



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Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard.



# 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

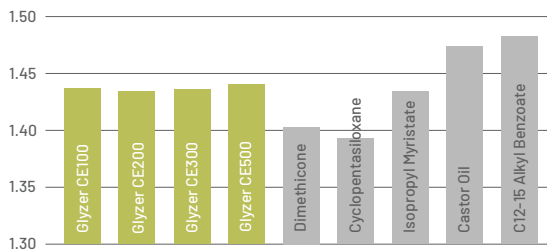
Derived from natural and sustainable raw materials

Readily biodegradable

### PHYSICO-CHEMICAL PROPERTIES

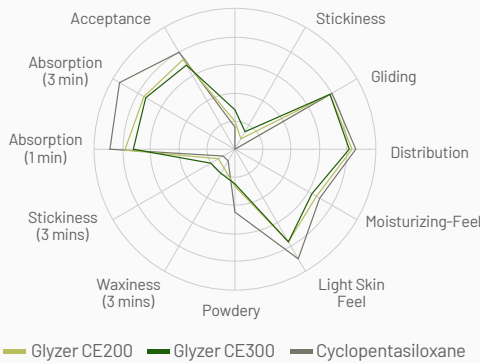
BRAND NAME	INCI NAME	DESCRIPTION	BODY CARE	FACE CARE	SUN CARE	HAIR CARE	COLOR COSMETICS	LIP CARE
Glyzer CE100	Coco Caprylate	Dry-touch emollient	✓	✓	✓	✓	✓	✓
Glyzer CE200	Isomyl Laurate	Lightweight emollient	✓	✓	✓	✓		✓
Glyzer CE300	Coco Caprylate / Caprate	Silky-feel emollient	✓		✓	✓	✓	✓
Glyzer CE500	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 shine on the finished product. Our Glyzer CE lines can give a healthy shine on applied surface.

### SENSORY PROFILE



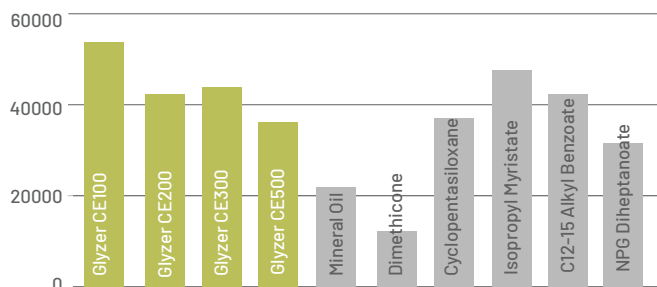
We evaluated the sensory profile of Glyzer CE in comparison to cyclopentasiloxane (D5). Glyzer CE200 and CE300 deliver a luxurious feel with a light touch of waxiness, extended playtime, and a lasting effect on the skin. They offer a silicone-like glide with low stickiness and leave a non-greasy, and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

### SUNSCREEN SOLUBILITY

	5% Avobenzone	
	Insoluble	Soluble
Glyzer CE100		✓
Glyzer CE200		✓
Glyzer CE300		✓
Glyzer CE500		✓
Isopropyl Myristate		✓
C12-15 Alkyl Benzoate		✓
Isododecane	○	
Castor Oil	○	
Mineral Oil	○	
Dimethicone	○	
Cyclopentasiloxane	○	

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



Our Glyzers can deliver a wide range of spreadability benefits on the finished product. This can contribute to playtime, customer perception, skin barrier support, even distribution and product versatility, among others.

### 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.

# Sufravon

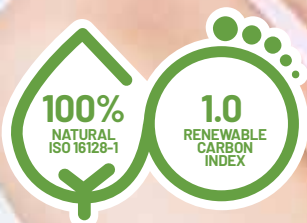
## Plant-based Cleansing Surfactant



Sulfate-free

Moisturizing

Non-irritating



A SUBSIDIARY OF  
CHEMREZ TECHNOLOGIES

Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard.



# Sufravon

## Plant-based Cleansing Surfactant

### PRIMARY SURFACTANT | ANIONIC SURFACTANT

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

## APPLICATIONS

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



Exceptional foaming & cleansing properties



Compatible with a wide range of surfactants



Easy to rinse, less water usage



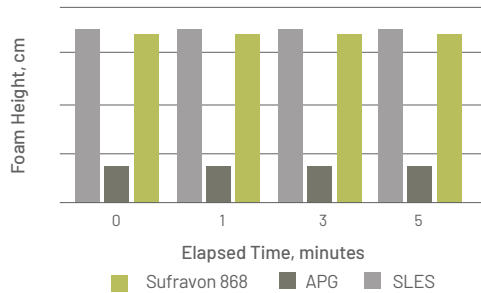
Excellent stain removing property

## SUFRAVON VARIANTS

PRODUCTS	SUFRAVON 840GV2*	SUFRAVON 874*	SUFRAVON 868*
INCI Name	Potassium Cocoate	Potassium Soap	Potassium Cocoate
Main Composition	Fractionated Coconut Oil	C12 - C18 Coconut Fraction	Coconut Oil
pH	10 - 11	9 - 11	9.5 - 10.5
Applications	Home Care	Home Care	Home Care, Personal Care

PRODUCTS	SUFRAVON 890*	SUFRAVON 875
INCI Name	Potassium Cocoate (and) Olivatate	Potassium Laurate (High Lauric Acid)
Main Composition	Coconut Oil (and) Olive Oil	Coconut Oil
pH	9 - 11	9.5 - 10.5
Applications	Personal Care, Baby Care, Pet Care	Personal Care

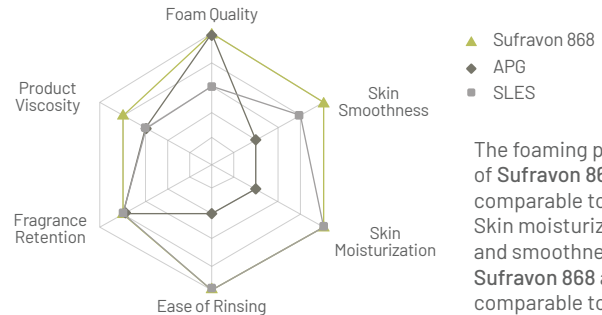
## FOAM HEIGHT OF SUFRAVON 868 VS. SLES AT 1% SOLUTION



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

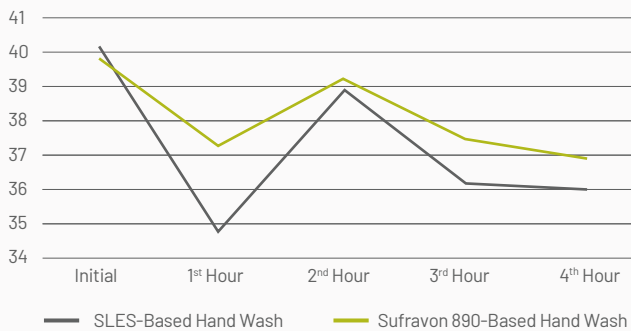
The foam height generated using Sufravon 868 is comparable to the foam generated using SLES, in contrast APG generated very minimal foam.

## SUFRAVON 868 SENSORY EVALUATION AS PRIMARY SURFACTANT IN LIQUID HAND SOAP



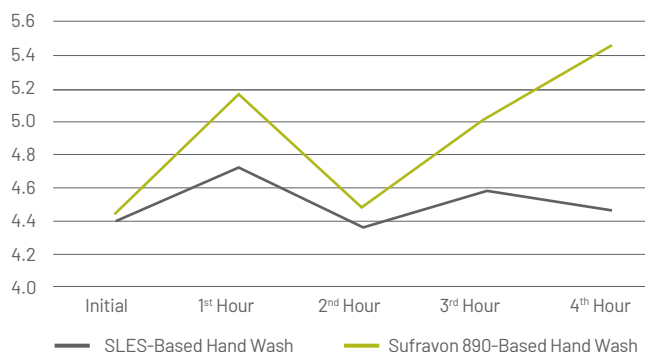
The foaming property of Sufravon 868 is comparable to SLES. Skin moisturization and smoothness of Sufravon 868 are comparable to APG.

## 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.

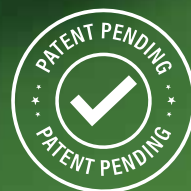
## SKIN pH UPON APPLICATION OF SUFRAVON 890



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

# NatPro 8000

Natural Preservative



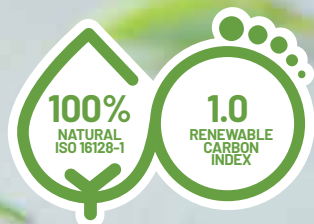
Potent antimicrobial active

Multifunctional

Plant-based



COSMOS APPROVED



Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard.



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# 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 refatting and moisturizing. This product is also a natural solution to replace and to boost the efficacy of regulated preservatives such as isothiazolines, 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  
low odor

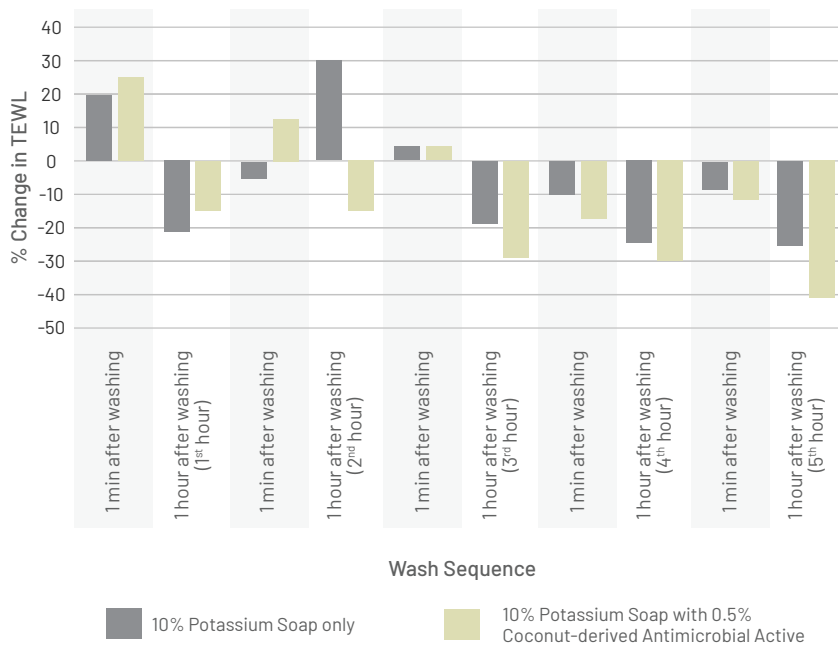
#### THIRD PARTY LABORATORY TEST RESULT

##### 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.

#### 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
		<b>TOTAL: 100</b>

#### PROCEDURE

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

Homogenize the bulk.

Load water in the container.

Mix until a translucent consistency is obtained.

# Sufravon SN100

Coconut-based Soap Noodles

With built-in moisturizer

100% Natural

Sustainable



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CHEMREZ TECHNOLOGIES

# Sufravon SN100

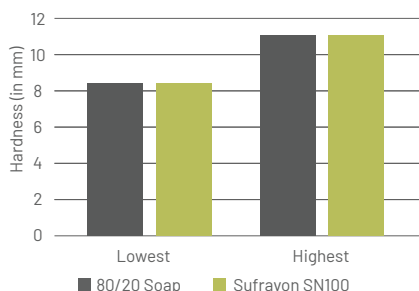
## Coconut-based Soap Noodles

### 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.



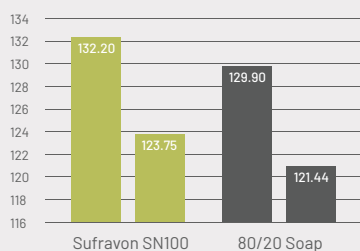
### BAR SOAP HARDNESS (PENETROMETER)



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



80/20 Soap

Score: 0

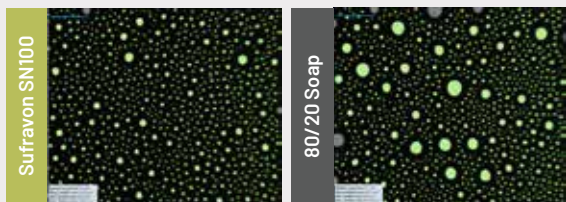


Sufravon SN100

Score: 1

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

### FOAM STRUCTURE



Foam Structure Image

	Sufravon SN100	80/20 Soap
Bubble Count/mm <sup>2</sup>	43.003	41.372
Mean Bubble Area (in $\mu^2$ )	23254	24171
Min. Bubble Area (in $\mu^2$ )	4832	4832
Max. Bubble Area (in $\mu^2$ )	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



1

Bar Soap  
Procedure: Plodder



2

Translucent Solid Products  
Procedure: Melt and pour



3

Liquid Concentrate  
Procedure: Heating



Scan the QR code to view examples of formulations.