NATURA AEROPACK CORPORATION

A SUBSIDIARY OF
CHEMREZ TECHNOLOGIES

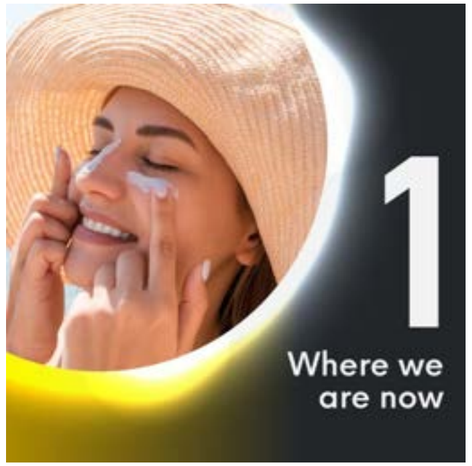
Summer-Ready:
Lightweight, Moisturizing, and Protective

Coconut-based Natural Emollients

Natural · 100% COCONUT · MILD & GENTLE · CRUELTY FREE · ECO FRIENDLY · SUSTAINABLE · COCONUT DERIVED

MINTEL

The Future of Suncare: 2025



Multifunctional claims in skincare and color cosmetics blur the boundaries of SPF usage.

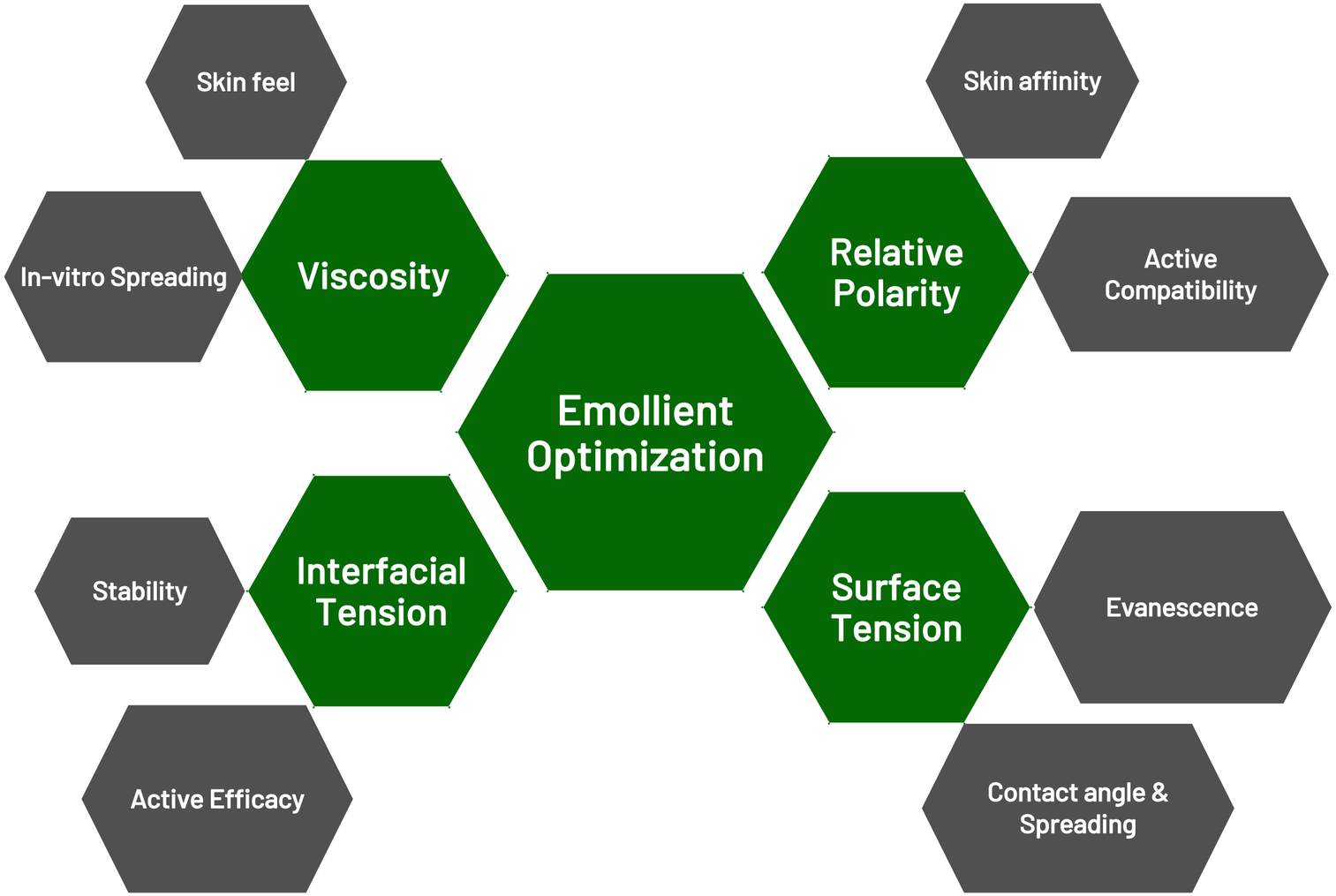
Prevention grows in popularity as more consumers turn to suncare to help protect and heal their skin.

Confused by misinformation and a changing climate, category shoppers struggle to understand and implement a personalized suncare protocol.

Enhance skin safety and skin health claims for gentle protection

Localism shapes usage, formulation guidelines and consumer expectations

Change the application game with emerging suncare formats


Skin feel
In-vitro Spreading
Viscosity
Skin affinity
Relative Polarity
Active Compatibility
Emollient Optimization
Stability
Interfacial Tension
Active Efficacy
Surface Tension
Evanescence
Contact angle & Spreading

Glyzer CT
Coconut Triglycerides Emollients

	INCI Name / CAS Number	ISO 16128-1 / RCI	Certifications and EWG Rating	Color APHA	S.G.
Glyzer CT100	Caprylic/Capric Triglyceride 73398-61-5	100, 1	1	50 max	0.93 - 0.96
Glyzer CT200	Caprylic/Capric/Lauric Triglyceride 68991-68-4	100, 1	1	50 max	0.93 - 0.96
Glyzer CT500	Cocoglycerides 68606-18-8	100, 1	1	50 max	0.93 - 0.96
Glyzer CT600	Tricaprylin 538-23-8	100, 1	1	50 max	0.93 - 0.96

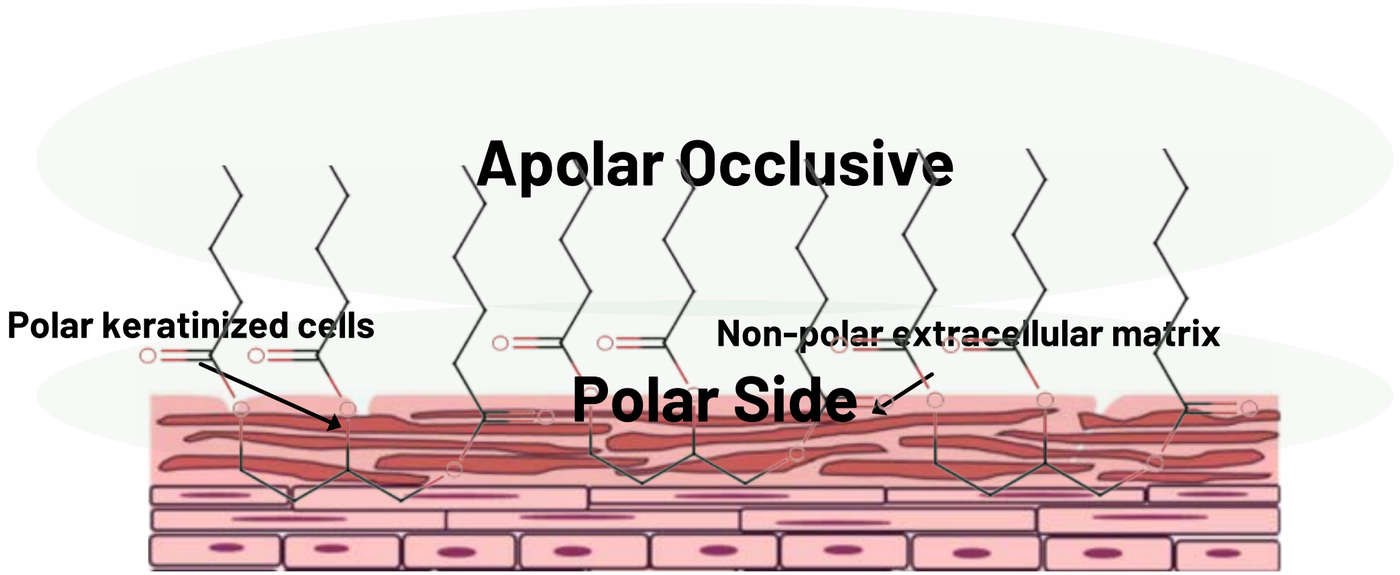
Glyzer CE
Vegetable Oil-Free Esters

	INCI Name / CAS Number	ISO 16128-1 / RCI	Certifications and EWG Rating	Color APHA	S.G.
Glyzer CE200	Isoamyl Laurate 6309-51-9	100, 1	1	100 max	0.85 - 0.95
Glyzer CE300	Coco Caprylate/Caprate 95912-86-0	100, 1	1	50 max	0.83 - 0.88
Glyzer CE500	Butylene Glycol Dicaprylate/ Dicaprate 4196-74-1	100, 1	1	50 max	0.83 - 0.88

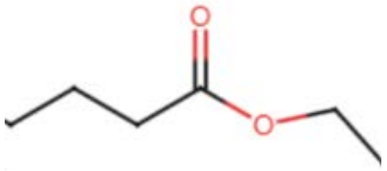
Relative Polarity Index

A measure of the emollient's polarity based on their prevalent intermolecular forces of attraction.

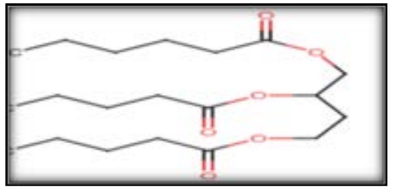
Skin Affinity



Apolar



More Polar



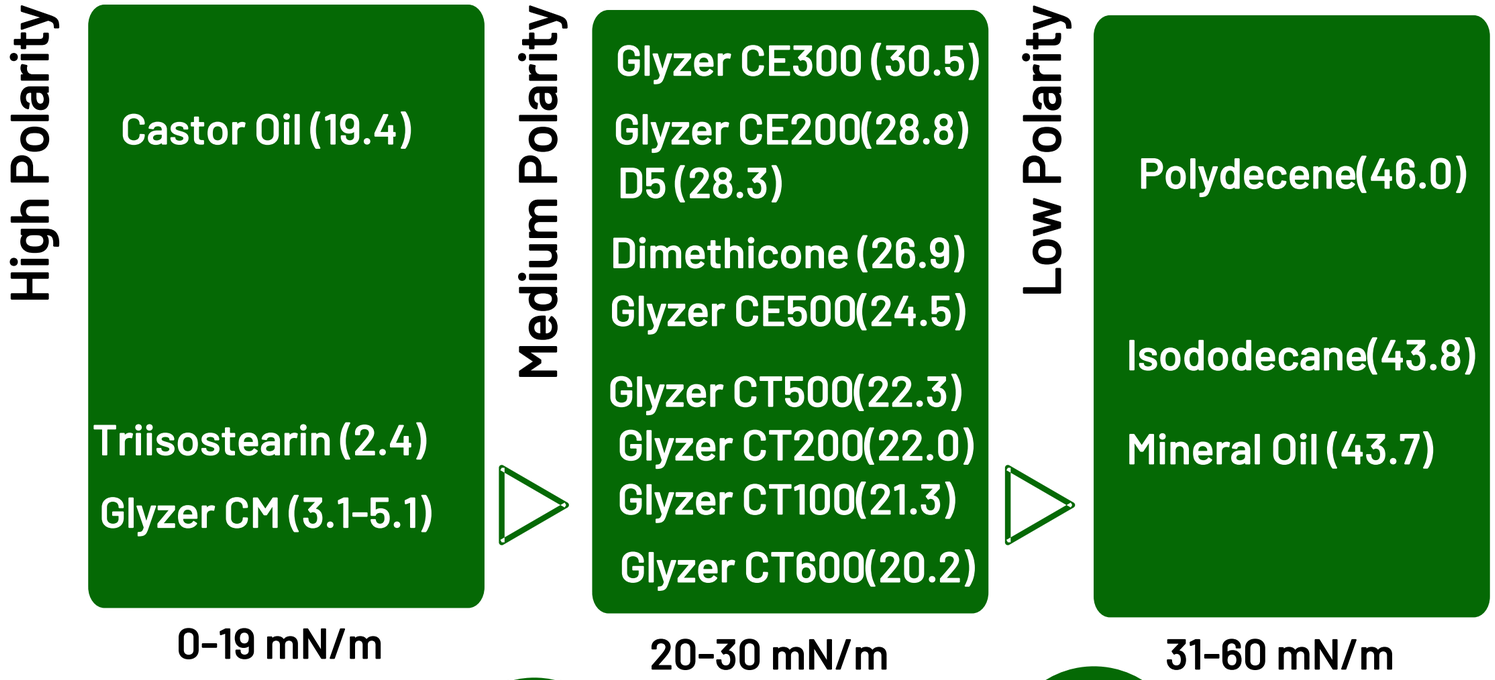
Most Polar

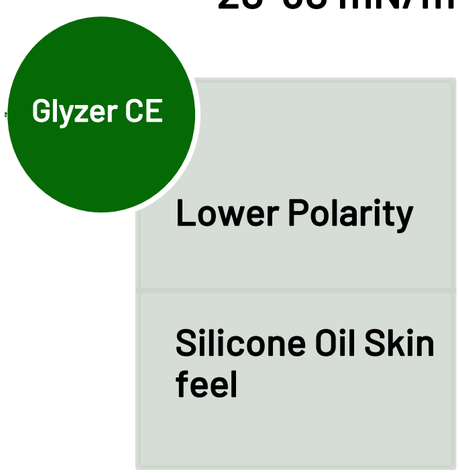
Sensory Profile

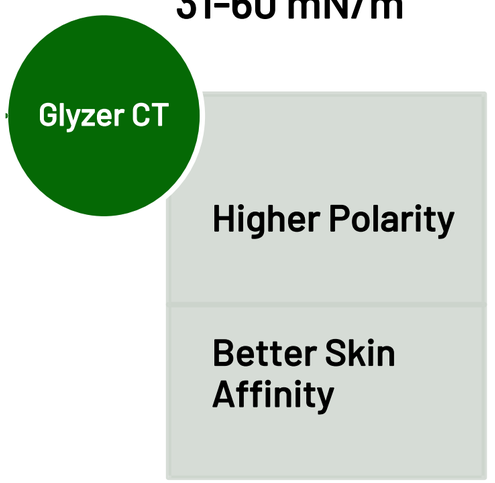
High Polarity	Low Polarity
• Fast skin adsorption/ absorption • Feels 'too tacky' • Low Playtime	• Poor skin adsorption/ absorption • Feels 'too oil' • Long Playtime

Relative Polarity Index

A measure of the emollient's polarity based on their prevalent intermolecular forces of attraction.





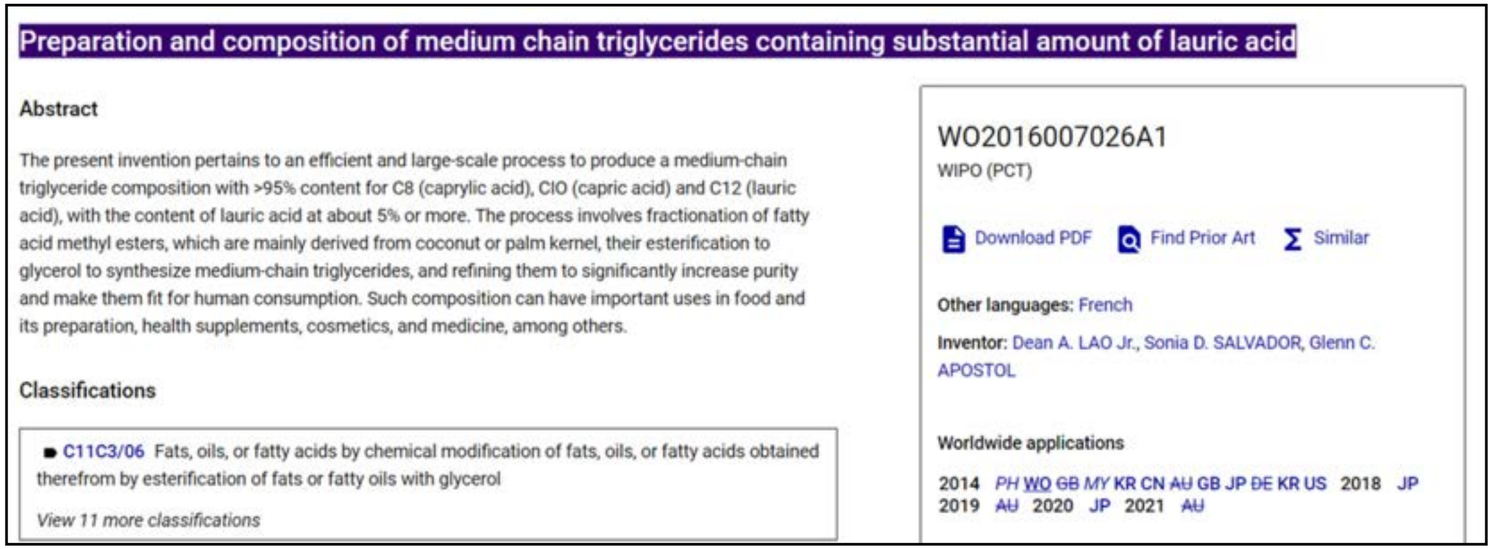


Patented technology by Chemrez Technologies[1]

The patent claims both the process of production and the composition of the triglycerides.

- **Of all saturated fatty acids, lauric acid has the highest affinity to the stratum corneum**

[1] Patent pending for hair care and scalp care application claim use



Preparation and composition of medium chain triglycerides containing substantial amount of lauric acid

Abstract

The present invention pertains to an efficient and large-scale process to produce a medium-chain triglyceride composition with >95% content for C8 (caprylic acid), C10 (capric acid) and C12 (lauric acid), with the content of lauric acid at about 5% or more. The process involves fractionation of fatty acid methyl esters, which are mainly derived from coconut or palm kernel, their esterification to glycerol to synthesize medium-chain triglycerides, and refining them to significantly increase purity and make them fit for human consumption. Such composition can have important uses in food and its preparation, health supplements, cosmetics, and medicine, among others.

Classifications

C11C3/06 Fats, oils, or fatty acids by chemical modification of fats, oils, or fatty acids obtained therefrom by esterification of fats or fatty oils with glycerol

View 11 more classifications

WO2016007026A1

WIPO (PCT)

Download PDF Find Prior Art Similar

Other languages: French

Inventor: Dean A. LAO Jr., Sonia D. SALVADOR, Glenn C. APOSTOL

Worldwide applications

2014 *PH* WO GB *MY* KR CN AU GB JP DE KR US 2018 JP 2019 AU 2020 JP 2021 AU

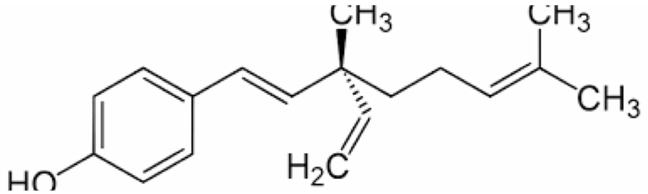
Fatty Acid	Glyzer CT200	Glyzer CT100
Caproic Acid	<6	<3
Caprylic Acid	13-45	50-70
Capric Acid	8-35	30-50
Lauric Acid	2-70	<2
Myristic Acid	<8	<5

Relative Polarity Index

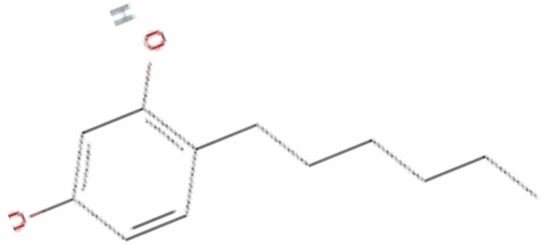
A measure of the emollient's polarity based on their prevalent intermolecular forces of attraction.

Active Compatibility

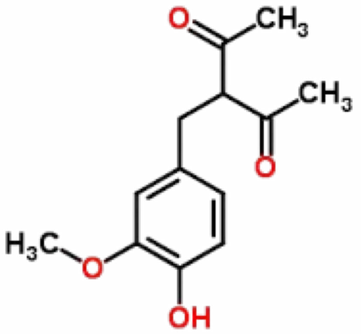
- "Like dissolves like"
- Most of cosmetic actives contains polar moieties



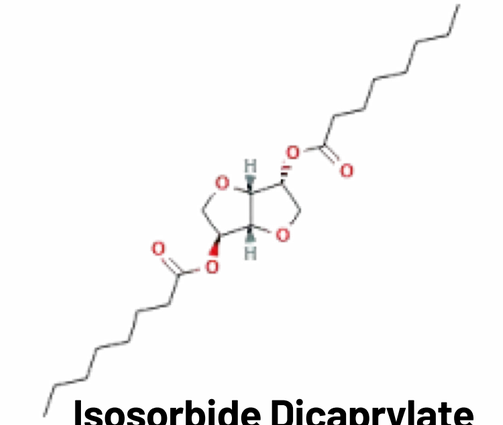
Bakuchiol



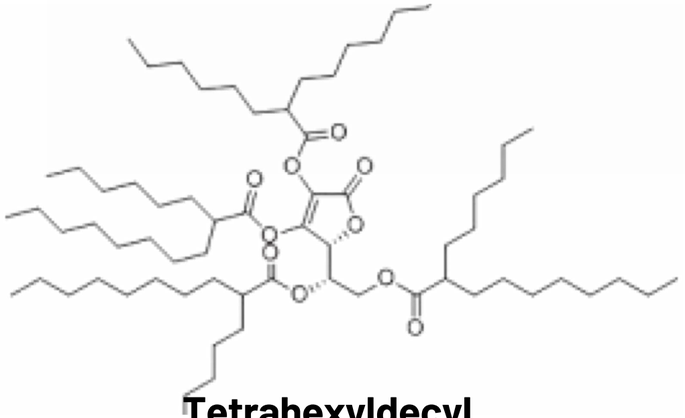
4-hexylresorcinol



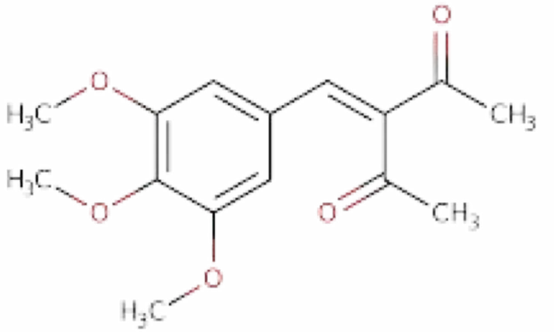
Acetyl Zingerone



Isosorbide Dicaprylate

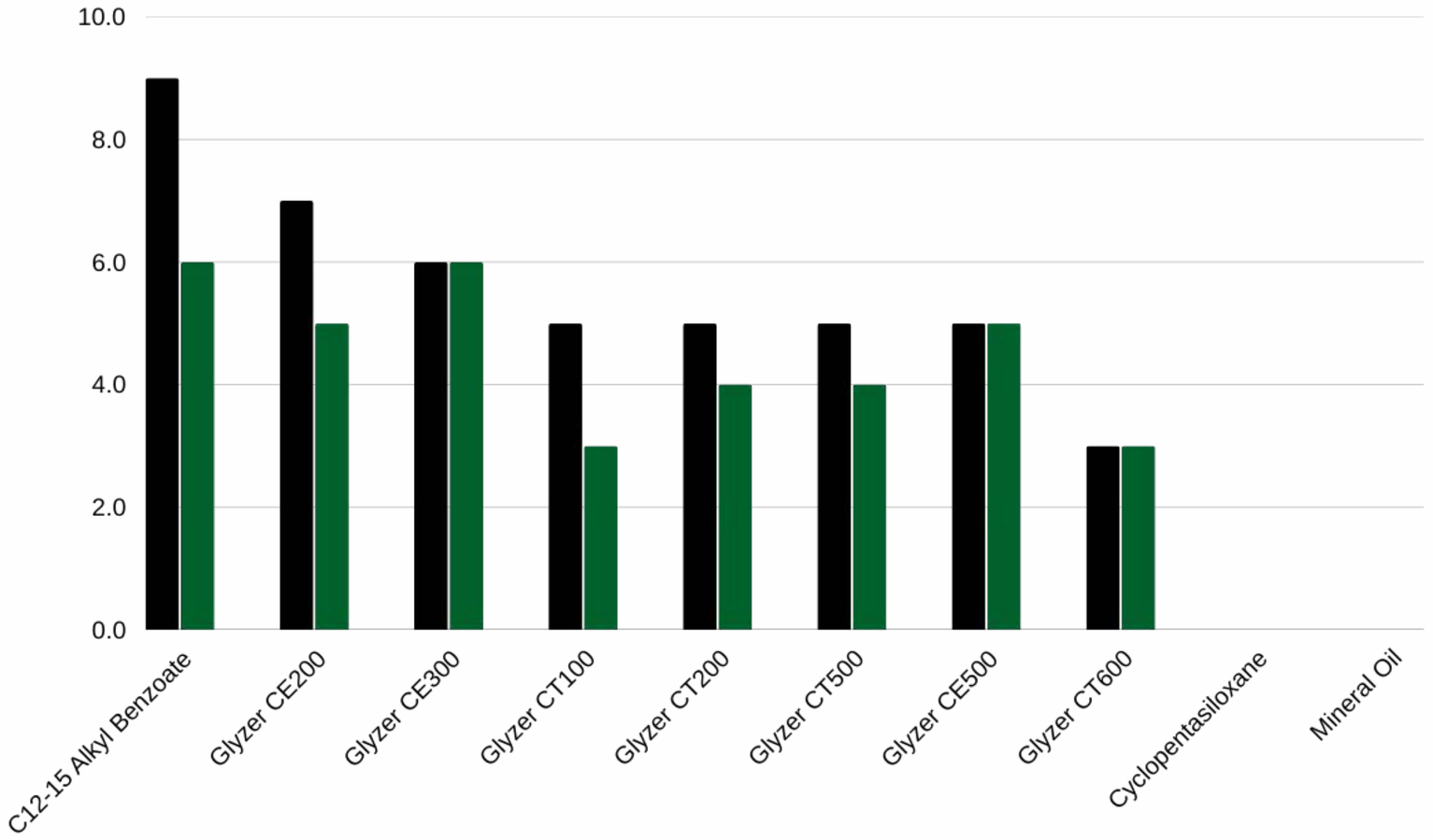


Tetrahexyldecyl Ascorbate

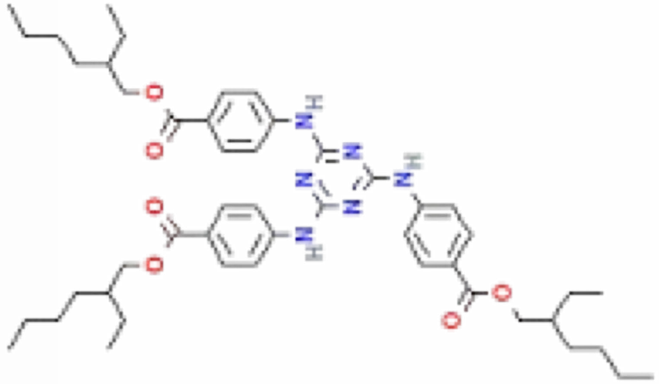


Trimethoxybenzylidene Pentanedione

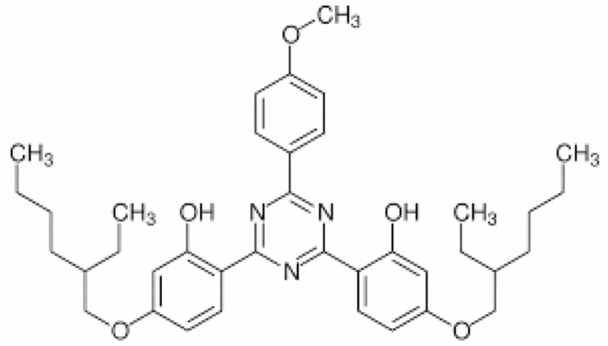
UV Filter Solubility:
Consequence of Emollient Polarity



EthylHexyl Triazone



BisEthylhexyloxyphenol Methoxyphenyl Triazine (BEMT)



- **The polarity of Glyzer Emollients makes them ideal solubilizers of UV filter actives.**

Viscosity

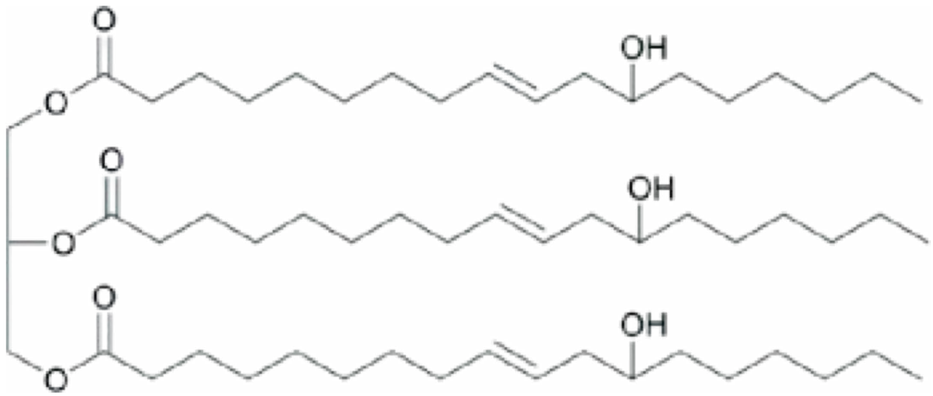
Dynamic viscosity is the measure of an emollient's tendency to resists flow when an external force is applied.

- **Sensory Profile**

Low Viscosity	High Viscosity
• Light and evanescent feel • High spreadability	• Oily and tacky feel • Low spreadability • Longer playtime

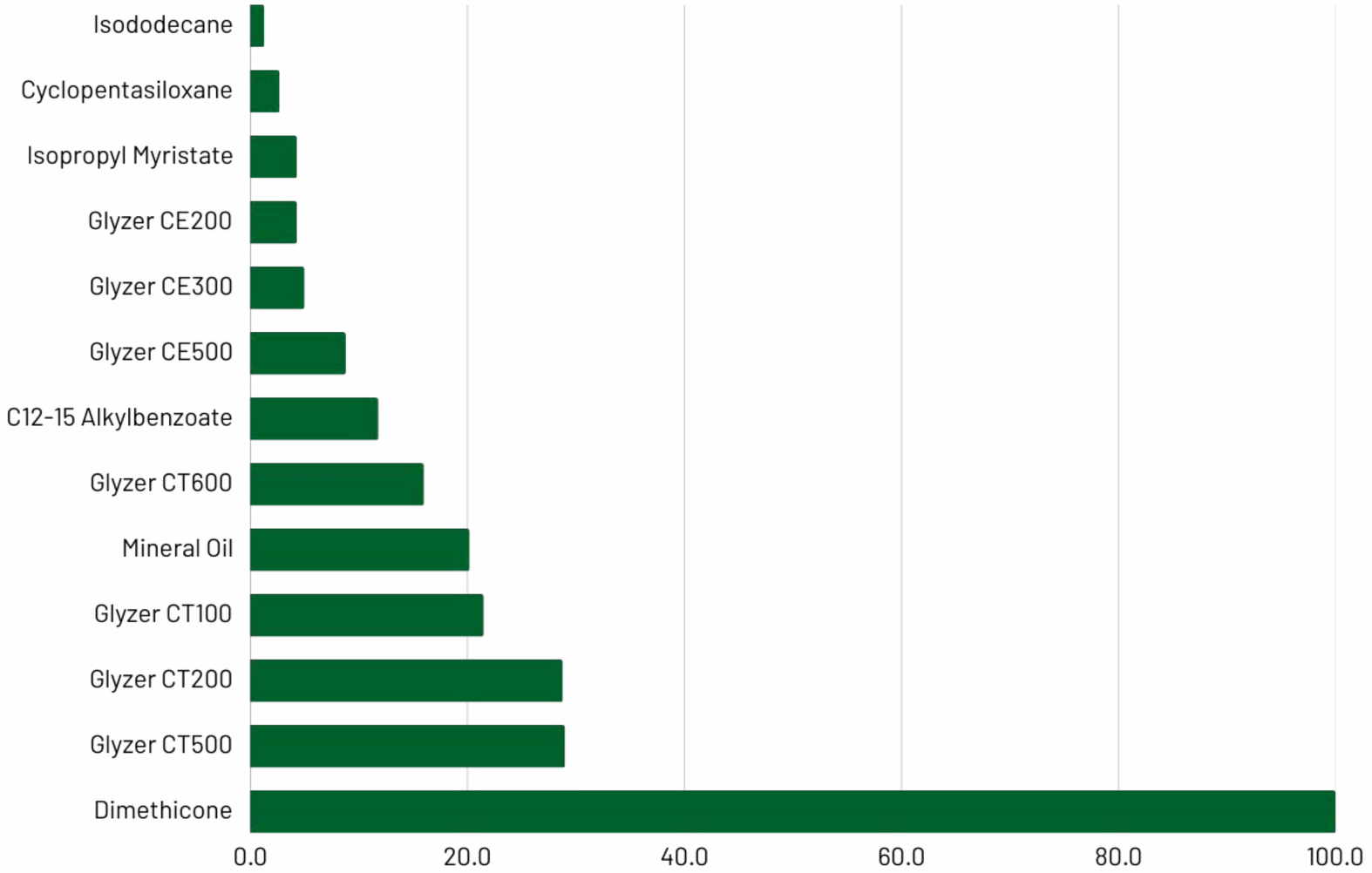
- **Correlation with Polarity**

Among esters, higher polarity is associated with higher viscosity

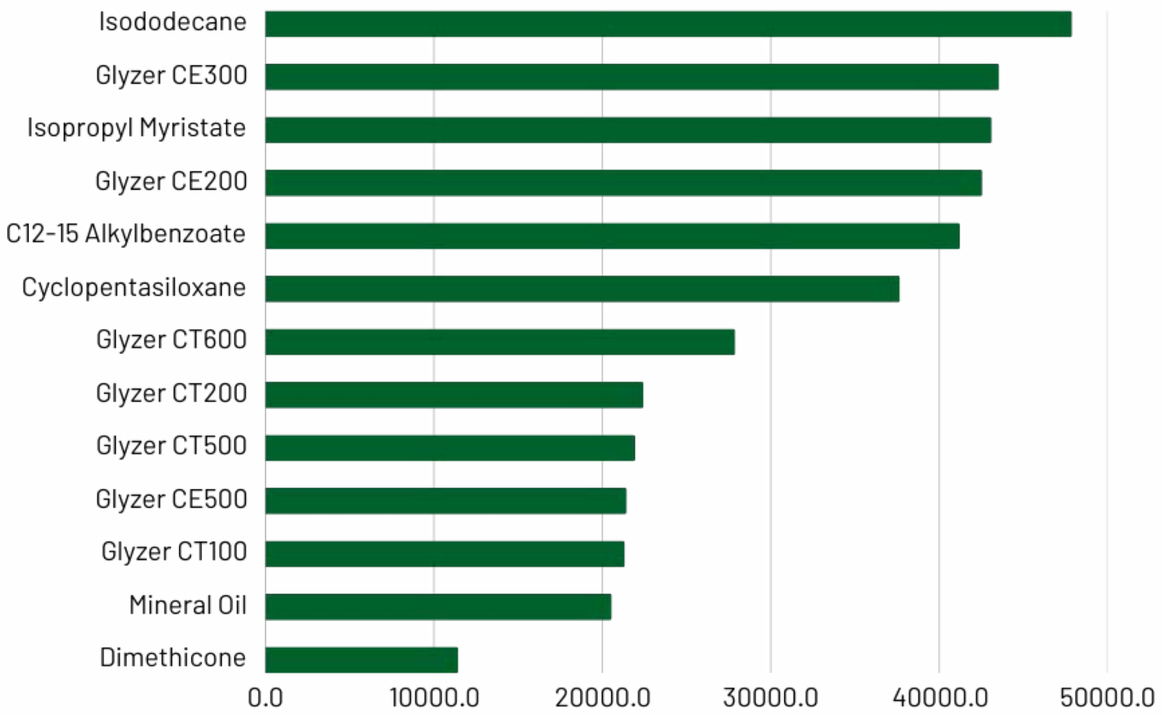


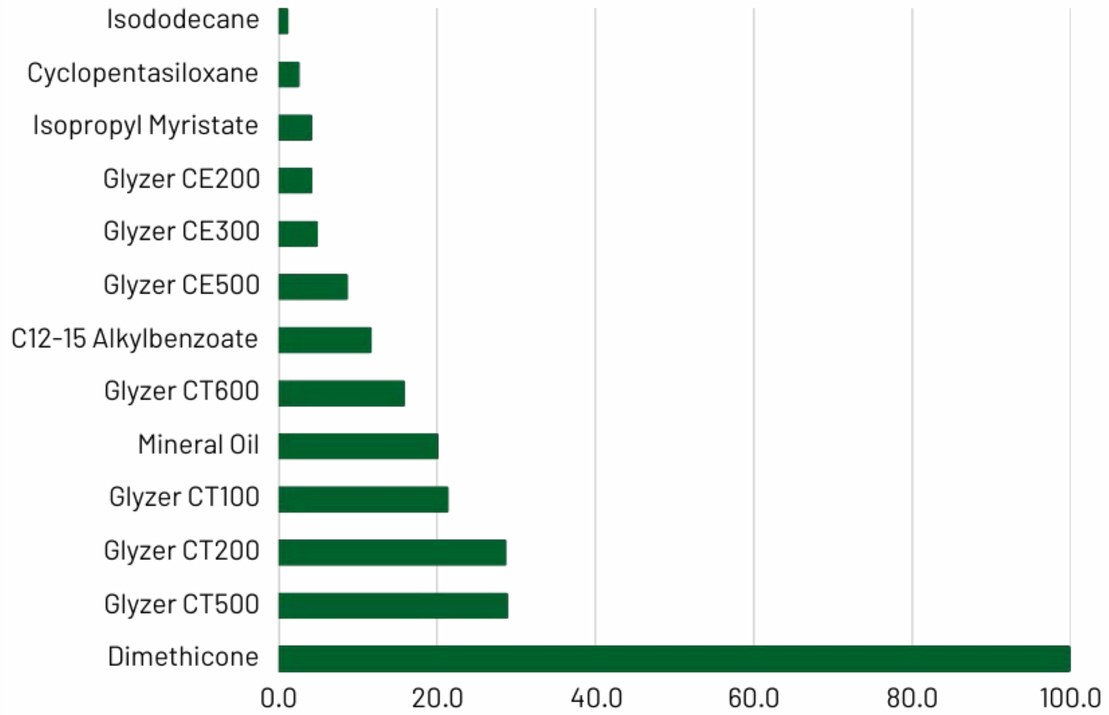
Viscosity

Dynamic viscosity is the measure of an emollient's tendency to resists flow when an external force is applied.



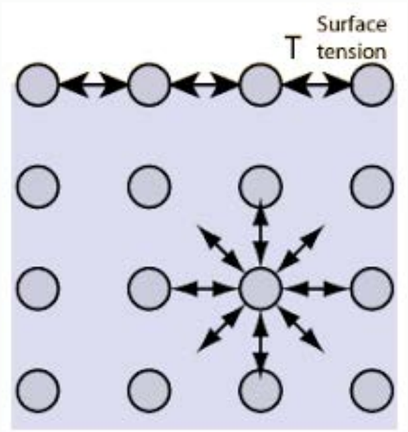
in vitro Spreadability: Consequence of Viscosity





Glyzer CE200 and Glyzer CE300 have very high in vitro spreadability, exceeding the spreadability of cyclopentasiloxane
Glyzer CT's have better spreadability than mineral oils and dimethicone in-vitro speadability differs significantly with the skin spreadability which is also affected by polarity

Surface Tension

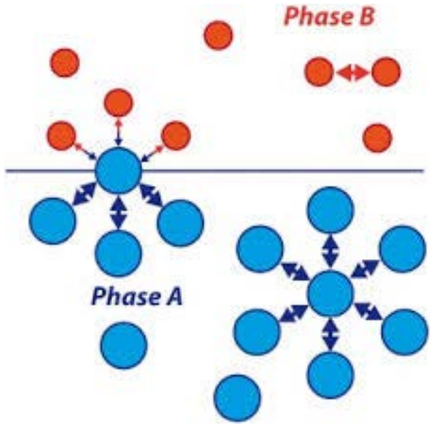


Surface tension is the force acting on the surface of a liquid that tends to minimize its surface area.

Lower surface tension leads to better spreadability, as the emollient can easily spread over the skin

Emollients with lower surface tension can form a uniform, thin film on the skin, providing optimal moisturization

Interfacial Tension



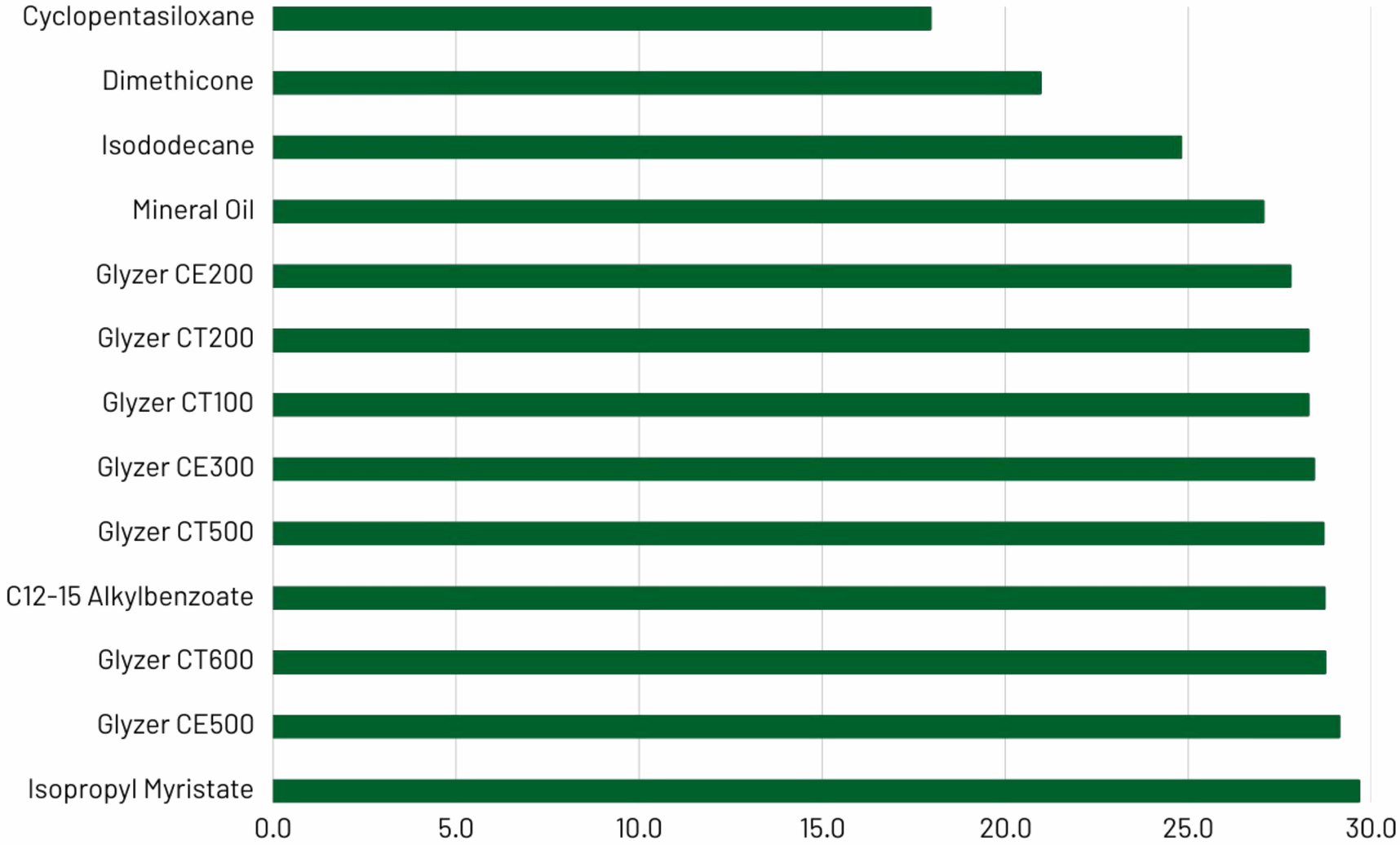
Interfacial tension is the force acting at the interface between two immiscible liquids

Lower interfacial tension promotes the formation of stable emulsions, preventing phase separation

Low interfacial tension can enhance the penetration of emollients into the skin, improving their efficacy

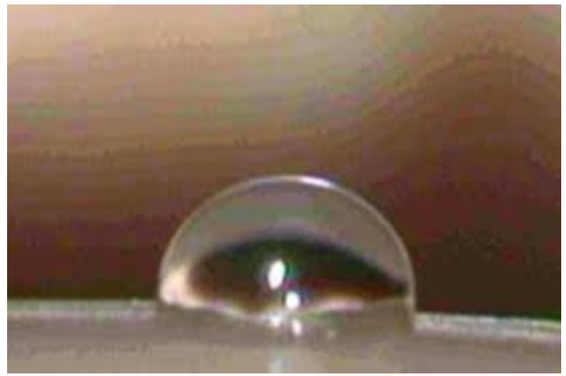
Surface & Interfacial Tension

Dynamic viscosity is the measure of an emollient's tendency to resists flow when an external force is applied.

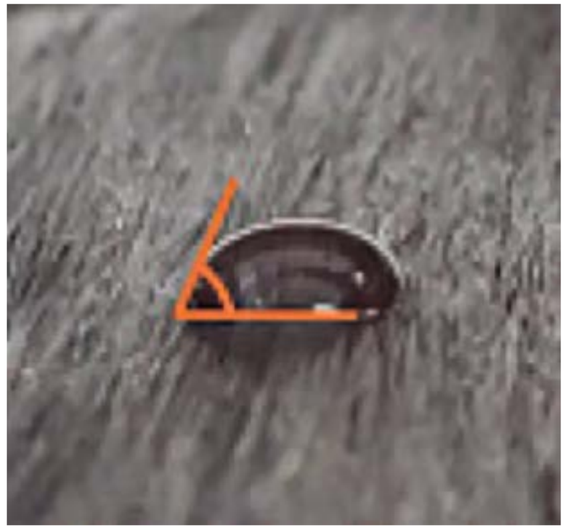


Contact Angle and Spreadability

Consequence of Surface Tension

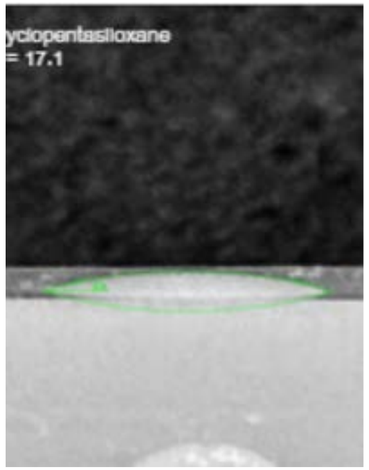


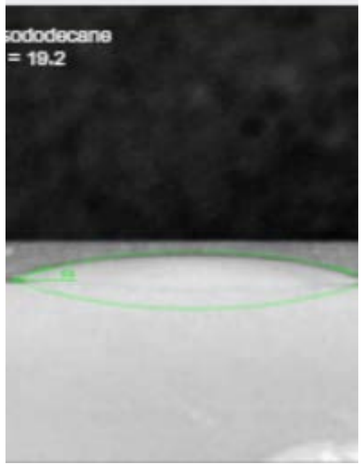
Contact angle on skin and hair is a popular method to assess the wettability of emollients on these surfaces.

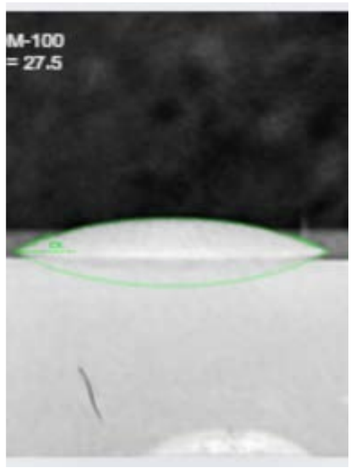


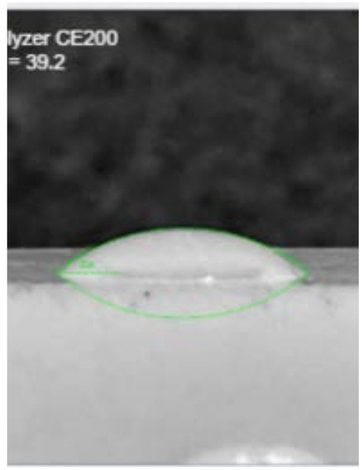
A perfect spreading is characterized by a zero contact angle which is equivalent to ‘molecular thick’ spreading on skin and hair.

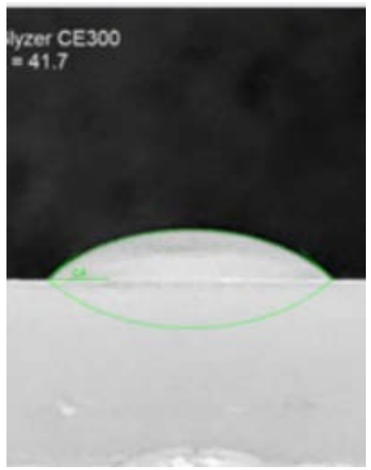
Low surface tension contributes to lowering the contact angle on a surface

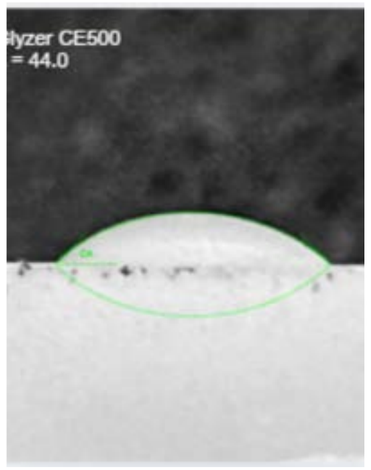

yclopentasiloxane
= 17.1

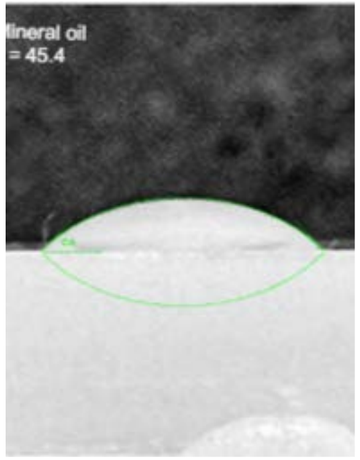

ododecane
= 19.2

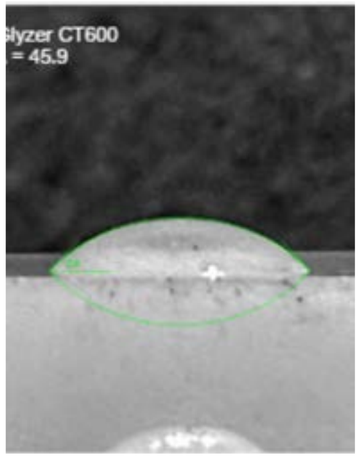

M-100
= 27.5


lyzer CE200
= 39.2


lyzer CE300
= 41.7

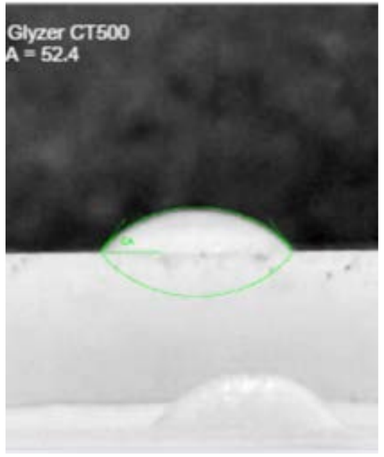

lyzer CE500
= 44.0

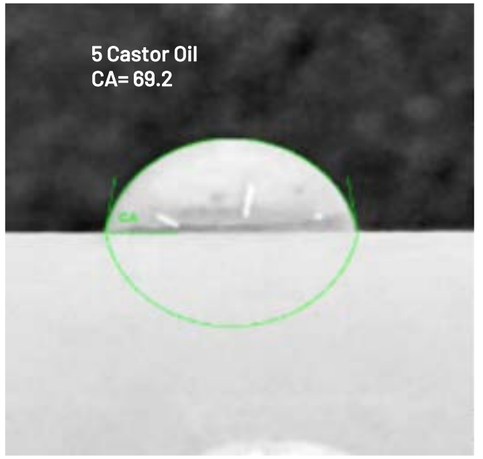

lineral oil
= 45.4


lyzer CT600
= 45.9


lyzer CT100
= 51.2

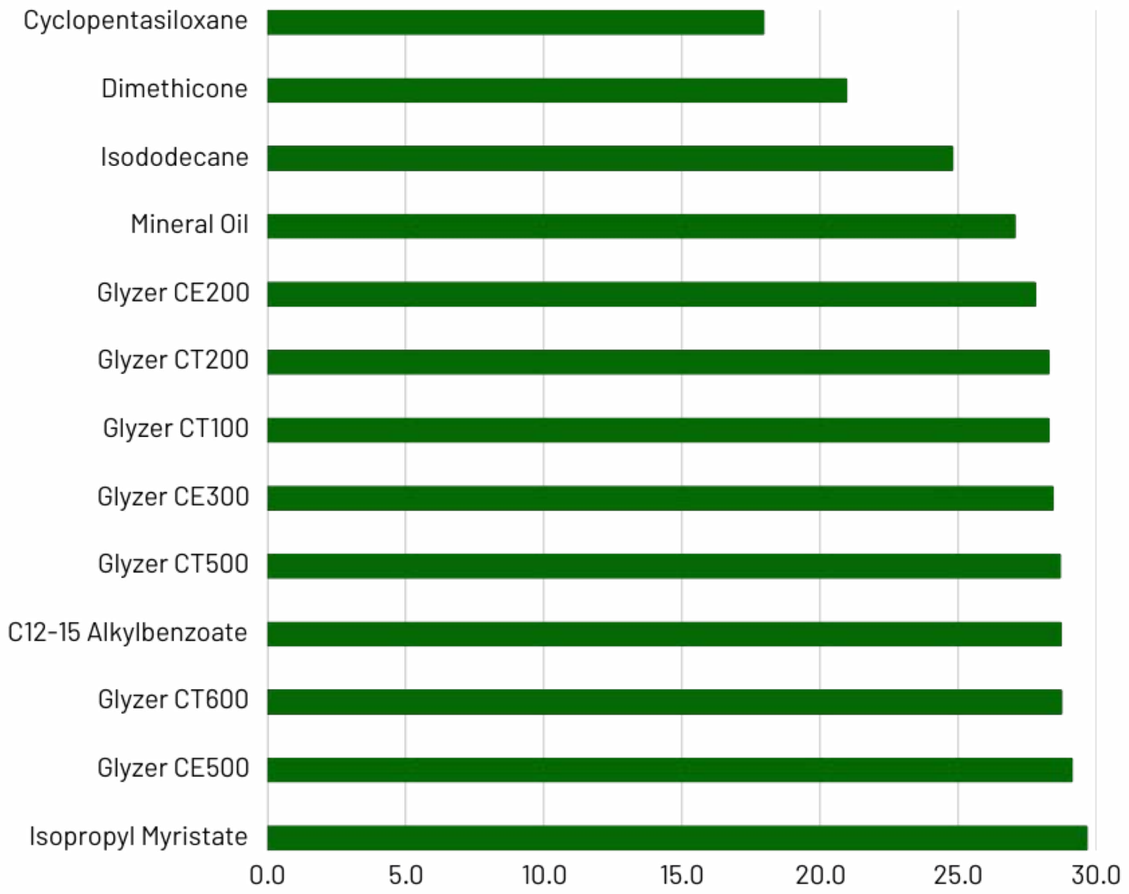

Glyzer CT200
A = 51.8

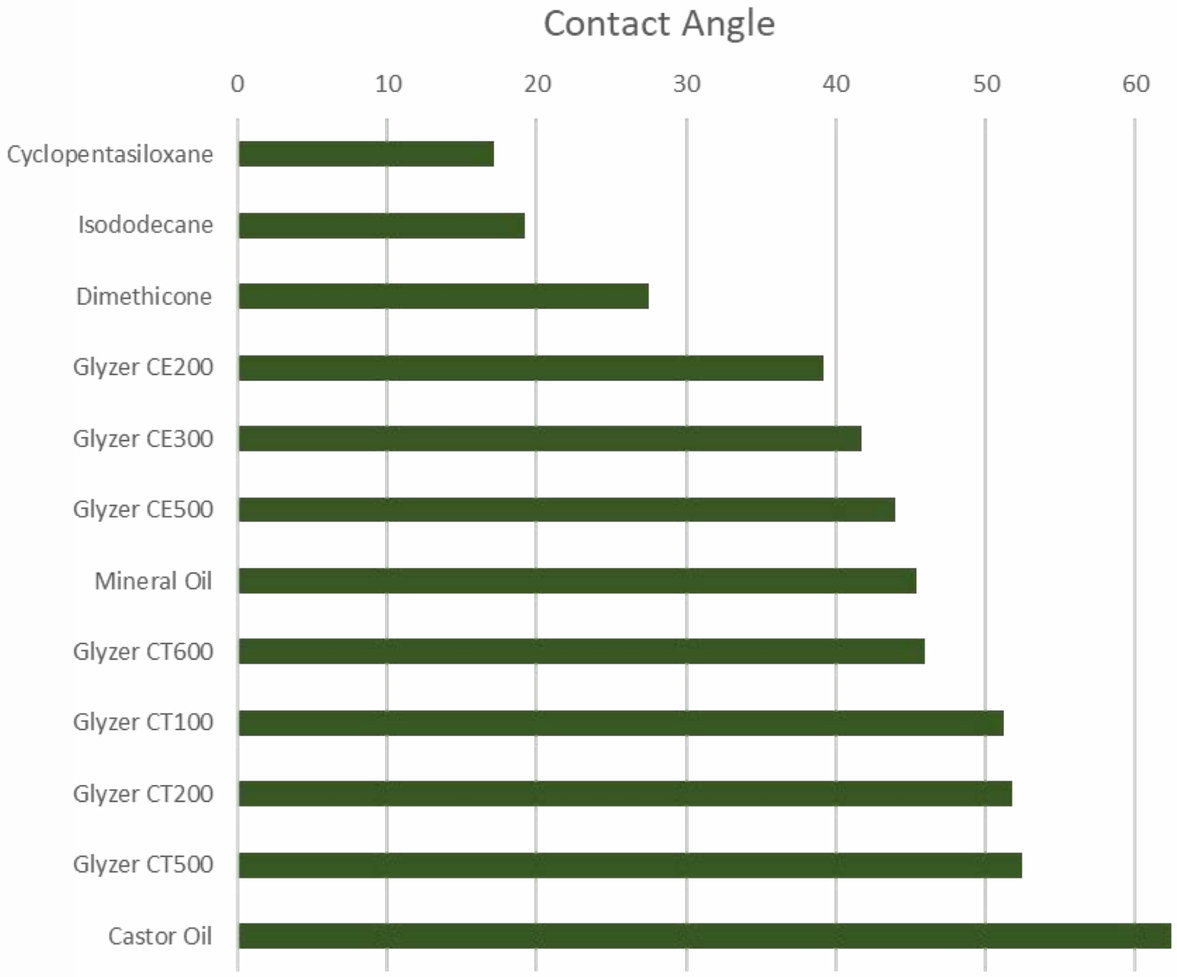

Glyzer CT500
A = 52.4


5 Castor Oil
CA= 69.2

Contact Angle and Spreadability

Consequence of Surface Tension

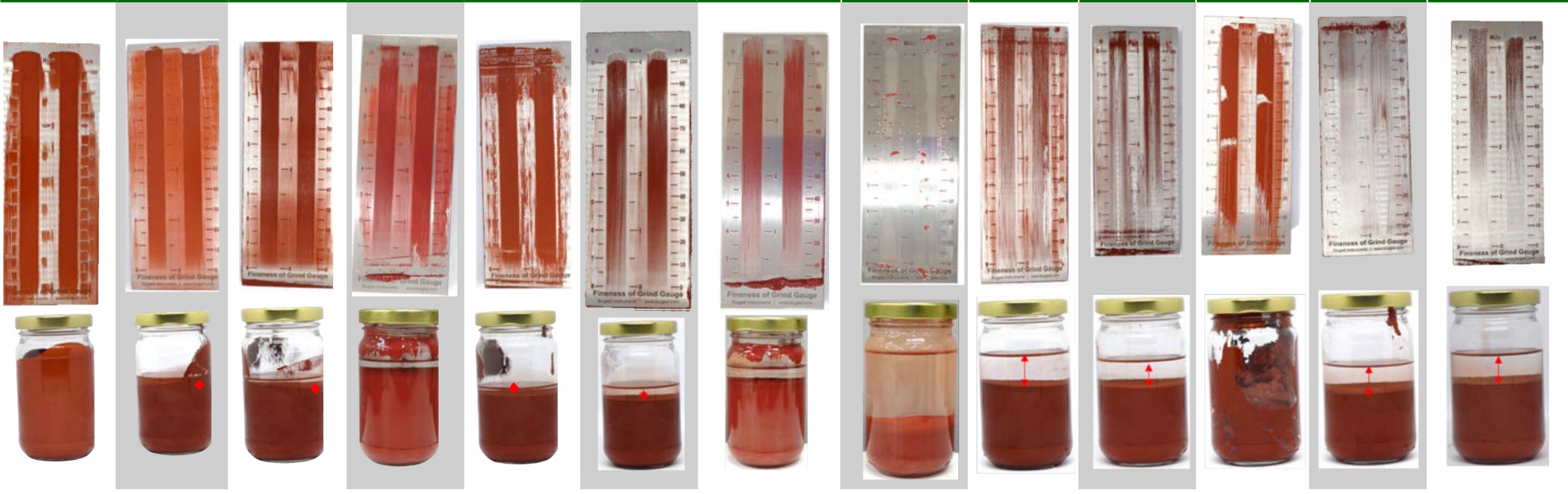




Pigment Wettability

Interplay of Surface Tension and Viscosity and Polarity

Castor Oil	Glyzer CT500	Glyzer CT200	C12-15 Alkyl Benzoate	Glyzer CT100	Glyzer CT600	Glyzer CE300	Isododecane	Mineral Oil	Glyzer CE200	DM100	Cyclo pentasiloxane (D5)	Isopropyl Myristate



The Quest for Silicone Oil Replacement

Sensory Expectations

- Easy Spreading on Skin
- Non sticky and greasy
- Silky, velvety, powdery, and light
- Odorless

Physicochemical Properties

- Relative Polarity index
- Surface Tension
- Interfacial Tension
- Viscosity

New Industry Hurdles

- Human and environment safe
- Cost Effective
- Bio-derived
- Scalable

Silicone Oil Replacement

Chemical Name	INCI	CAS No.	Existing restrictions		Proposed restrictions	
			LEAVE ON	RINSE OFF	LEAVE ON	RINSE OFF
Octamethylcyclotetrasiloxane (D4)	Cyclotetrasiloxane	556-67-2	**Forbidden**	**Forbidden**	**Forbidden**	**Forbidden**
Decamethylcyclopentasiloxane (D5)	Cyclopentasiloxane	541-02-6	**Without restrictions**	**< 0,1%**	**< 0,1%**	**< 0,1%**
Dodecamethylcyclohexasiloxane (D6)	Cyclohexasiloxane	540-97-6	**Without restrictions**	**Without restrictions**	**< 0,1%**	**< 0,1%**

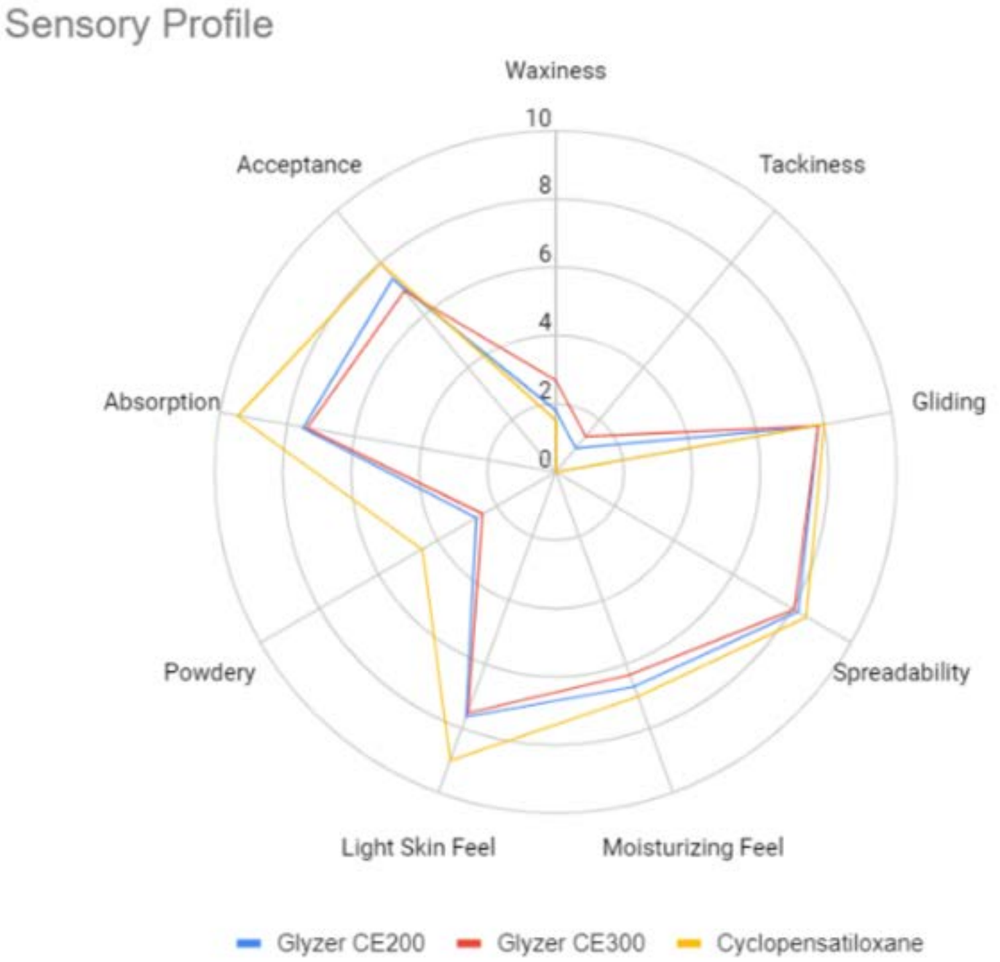
The European Commission has notified a proposal to amend Regulation (EC) No. 1907/2006 which took effect in Q4 2023

INCI	CAS No.	Limit date	
		LEAVE ON	RINSE OFF
Cyclotetrasiloxane (D4)	556-67-2	**Forbidden**	**Forbidden**
Cyclopentasiloxane (D5)	541-02-6	**3 years after the entry into force of this amending Regulation.**	**< 0,1%**
Cyclohexasiloxane (D6)	540-97-6		**2 years after the entry into force of this amending Regulation.**

Silicone-Like Sensory

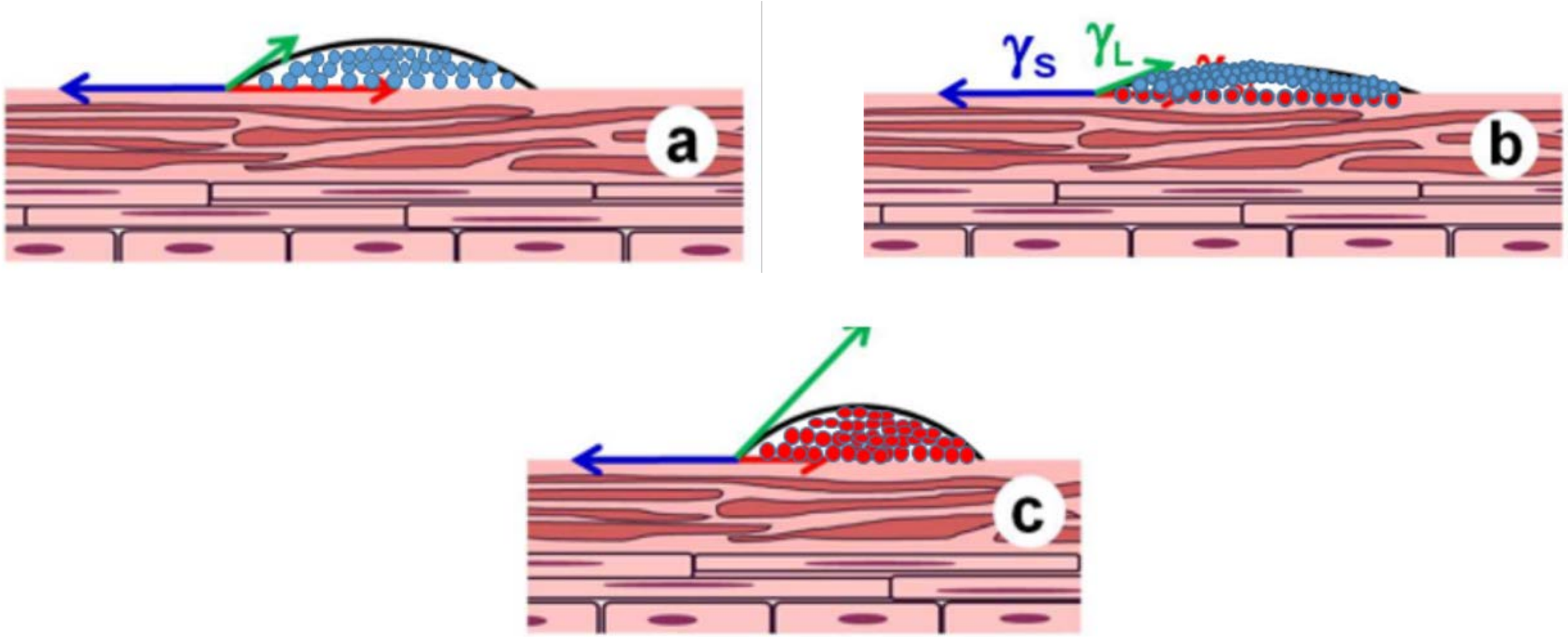
We compared the sensory profile of our esters with cyclopentasiloxane (D5).

Notable Characteristics:
Luxurious with very light waxiness feel
Extended playtime; lasts very quickly on your skin
Almost no stickiness detected
Silicone-like glide on your skin
Non-greasy and non-tacky feel



How to modify the sensory profile further?

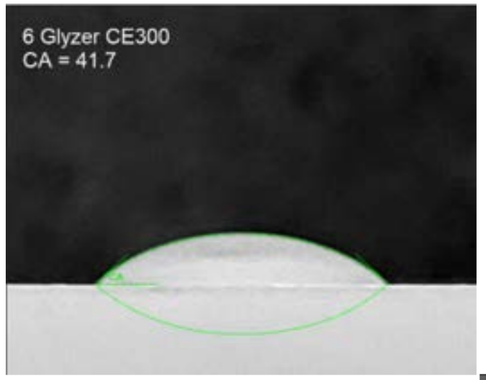
Emollient Blending Improves Sensory Profile



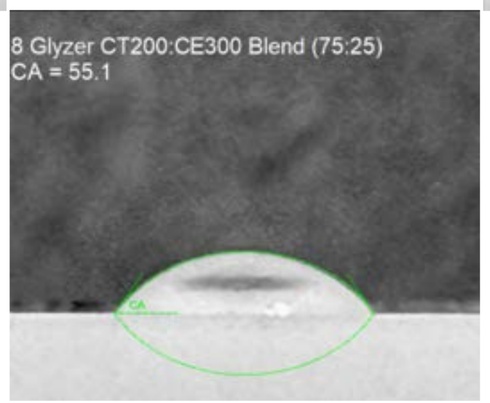
Emollient Blending

Emollient	Polarity Index, mN/m	Contact Angle, °
Glyzer CT200	21.8	51.8
Glyzer CE300	30.5	41.7

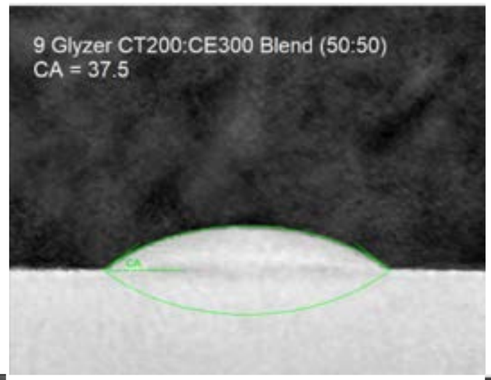
Goal- find a blend of Glyzer CT200 and Glyzer CE300 with lower contact angle!!!



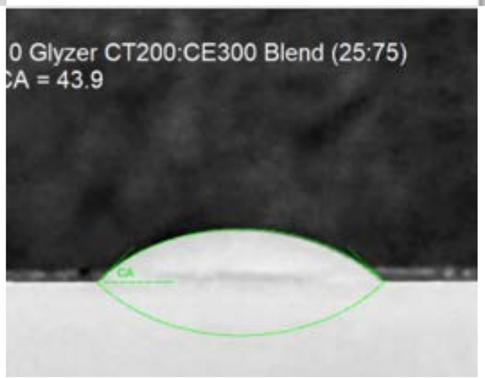
Θ= 41.7°



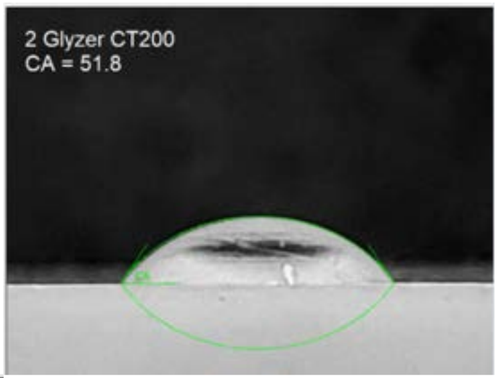
Θ= 55.1°



Θ= 37.5°



Θ= 43.9°



Θ= 51.8°

Airy Sunscreenstick SPF 50 PA++

PHC-PF-25-015

Have an exceptional protection with our lightweight formulation of Sunscreen Stick without feeling greasy. Ideal for any outdoor activity to protect your skin from sun's harmful rays, giving you a sensation of renewed vitality.

Phase	Ingredient	INCI	Function	%
A1	Stearic Acid	Stearic Acid	Thickener	4.20
A2	Rice Bran Wax	Oryza sativa (Rice) Bran Wax	Thickener	15.10
A3	**Glyzer CE200**	**Isoamyl Laurate**	**Emollient**	**4.00**
A4	**Glyzer CE300**	**Coco caprylate/caprate**	**Emollient**	**4.40**
A4	**Glyzer CT100**	**Caprylic/Capric Triglyceride**	**Emollient**	**14.00**
A5	Benzophenone-3	Benzophenone-3	UV Filter	8.00
A6	Octocrylene	Octocrylene	UV Filter	10.00
A7	Avobenzone	Avobenzone	UV Filter	8.00
A8	Ethylhexyl methoxycinnamate	Ethylhexyl methoxycinnamate	UV Filter	14.00
A9	Cetearyl Alcohol	Cetearyl Alcohol	Opacifier	4.00
A10	Ferulic Acid	Ferulic Acid	Anti-oxidant	0.02
B1	Water	Aqua	Diluent	9.98
B2	**NatPro 8000**	**Glyceryl Caprylate (and) Glyceryl Caprate (and) Glyceryl Laurate**	**Preservative**	**1.00**
B3	Fragrance		Fragrance	0.80
B4	Vitamin E	Tocopherol Acetate	Anti-oxidant	0.50
B5	**MelaControl F4**	**Dipropylene Glycol & *Rubus fruticosus* (Blackberry) Fruit Extract & *Rubus idaeus* (Raspberry) Fruit Extract & *Passiflora incarnata* Flower Extract & Propolis Extract**	**Whitening Active**	**2.00**

Procedure

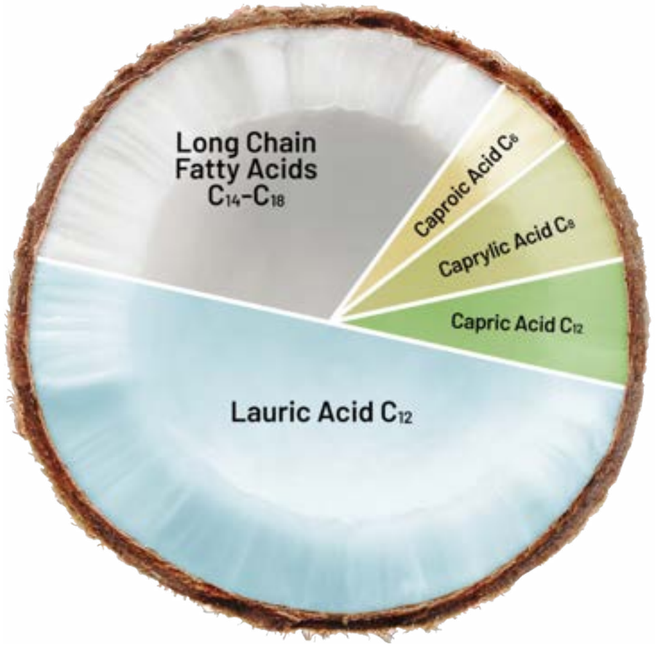
1	Heat phase A at 90°C while mixing.
3	In another container, mix Phase B, and mix until homogenous.
4	Add Phase B to Phase A.
4	Immediately fill into the desired stick packaging and allow to set.

Specification

Appearance	Solid
Color	Pale yellow
SPF Value	Theoretical based on SPF calculator

Glyzer CT200

SCIENTIFIC JOURNALS ABOUT MCT AND SCALP MICROBIOME



EFFECT OF COCONUT OIL ON SCALP MICROBIOME [1]

Enrichment of healthy scalp-related bacterial pathways

Decrease in the fungal pathogenesis pathways

Maintaining a healthy scalp and modulating the scalp microbiome

LAURIC ACID ANTIMICROBIAL ACTIVITY

Lauric acid has the highest antibacterial activity of all saturated fatty acids [3, 4]
Lauric acid is the most effective saturated fatty acid against gram-positive bacteria [5]

Candida albicans is susceptible the fastest with C10 but at longer contact time, it is most susceptible to C12 at lower concentration [6]

LAURIC ACID VS. MALASSEZIA [2]

Lauric acid reduced the growth rates of all Malassezia species except M. furfur at 0.1%, and that of M. sympodialis at 0.01%.

LAURIC ACID SKIN PENETRATION

When applied to the stratum corneum, lauric acid has the highest affinity of all fatty acids due to its optimal partition coefficient, solubility parameter, and conformation [7]

[1] Saxena, R., Mittal, P., Clavaud, C., Dhakan, D. B., Roy, N., Breton, L., ... & Sharma, V. K. (2021). Longitudinal study of the scalp microbiome suggests coconut oil to enrich healthy scalp commensals. Scientific reports, 11(1), 1-14.
[2] Akaza, N., Akamatsu, H., Takeoka, S., Sasaki, Y., Mizutani, H., Nakata, S., & Matsunaga, K. (2012). Malassezia globosa tends to grow actively in summer conditions more than other cutaneous Malassezia species. The Journal of dermatology, 39(7), 613-616.
[3] Galbraith H, Miller TB, Paton AM, Thompson JK (1971) Antibacterial activity of long chain fatty acids and the reversal with calcium, magnesium, ergocalciferol and cholesterol. J Appl Bact 34(4):803–813
[4] Kabara JJ, Swieczkowski DM, Conley AJ, Truant JP (1972) Fatty acids and derivatives as antimicrobial agents. Antimicrob Agents Chemother 2(1):23–28
[5] Kabara et al. (1972)
[6] Bergsson G, Arnfinnsson J, Steingrimsson O, Thormar H (2001) In vitro killing of Candida albicans by fatty acids and monoglycerides. Antimicrob Agents Chemother 4 (11):3209–3212
[7] Kezutyte T, Desbenoit N, Brunelle A, Briedis V (2013) Studying the penetration of fatty acids into human skin by ex vivo TOF-SIMS imaging. Biointerphases 8:3.doi:10.1186/1559-4106-8-3

High-Lauric Coconut MCT Anti-dandruff Properties: in Leave-on Product (Scalp Serum)

Clinical Test Methodology

- **Glyzer CT200** was used neatly as a hair serum at two dosage rates (full and half dosage).
- The samples were then subjected to a clinical test via a split scalp method.
- Regimen: Overnight application with subsequent washing with regular shampoo in the morning.
- Day 0-1: Pre-conditioning with a regular shampoo
- Day 7-21: Application of the sample in 2 dosages

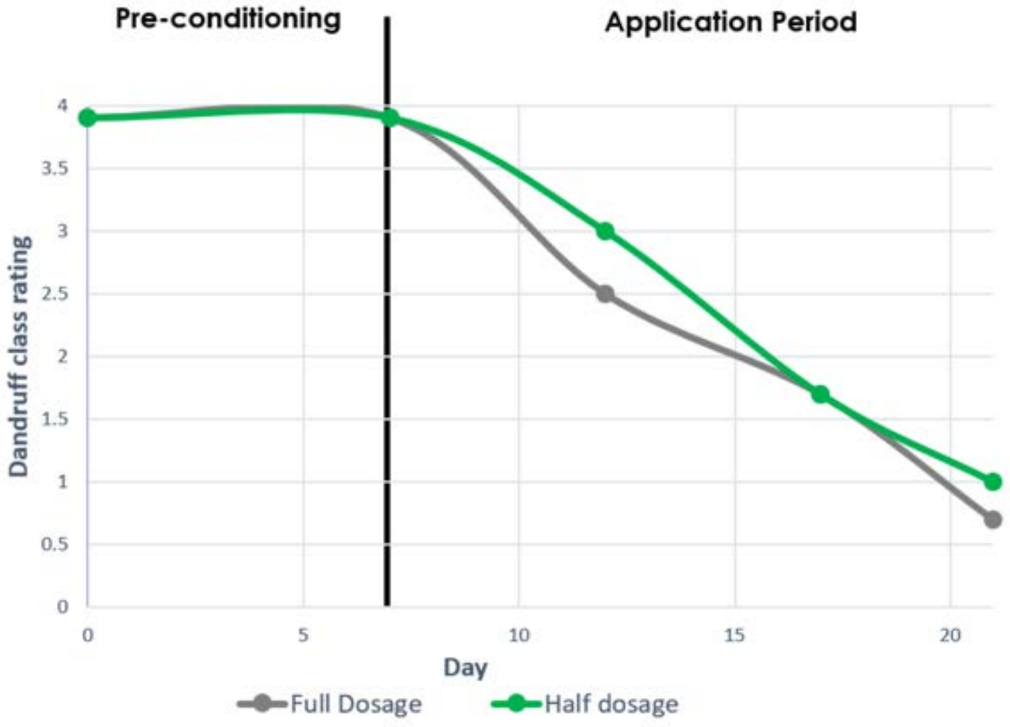
Class 0	Class 1	Class 2	Class 3	Class 4
No flakes	1-50 flakes	51-100 flakes	>100 flakes	Too many to count

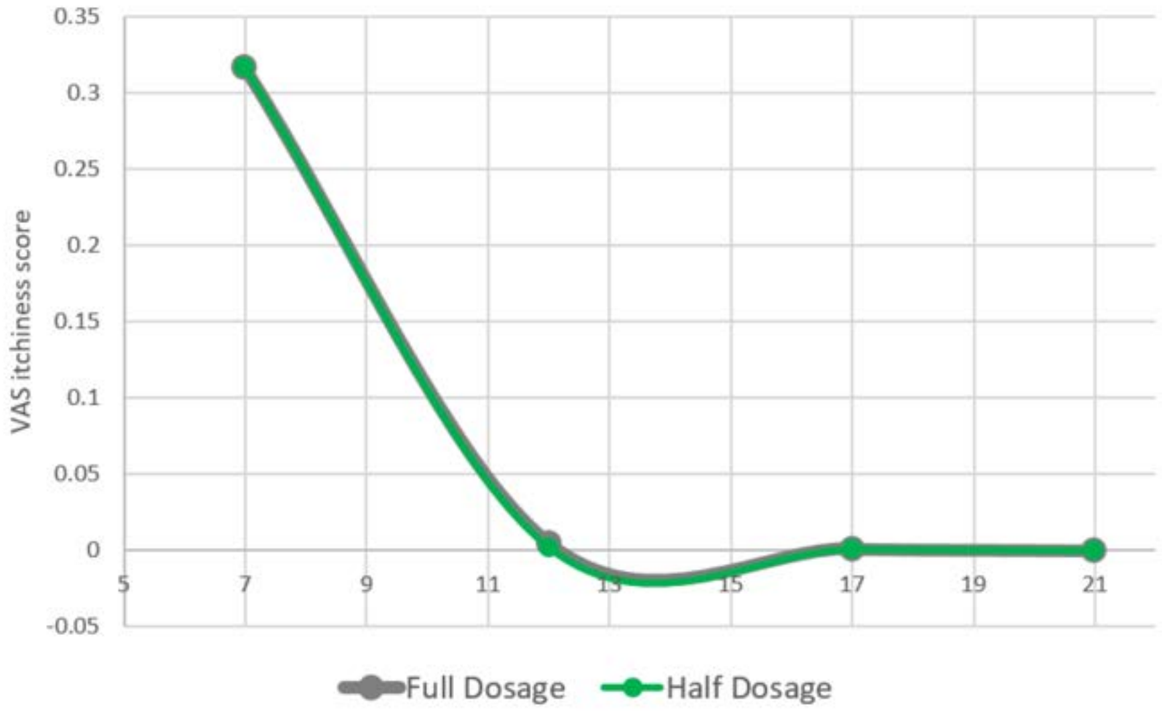
Evaluation

- Dandruff rating utilizing HairSys assessment with Monadic analysis
- Subjective Visual Analogue Scale of Pain for itchiness by the respondents, followed by a Monadic analysis

CLINICAL TRIAL
MANAGEMENT & TESTING ASSOCIATES, INC.

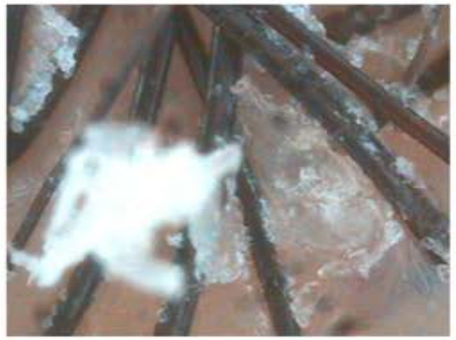
Hair and Scalp Serum
Clinical Test Report



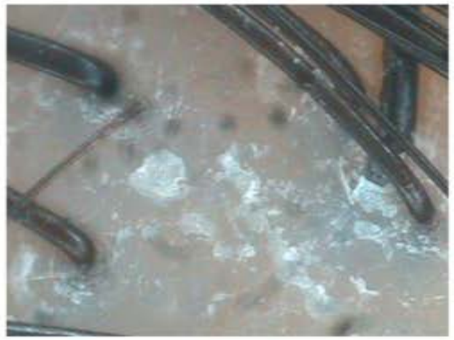


Hair and Scalp Serum

Day 0 Full dosage



Day 7 Full dosage



Day 12 Full dosage

Day 17 Full dosage

Day 21 Full dosage

Day 0 Half dosage

Day 7 Half dosage

Day 12 Half dosage

Day 17 Half dosage

Day 21 Half dosage

Scalp Moisturizer with SPF

PHC-PF-23-238

Scalp moisturizer formulation that helps nourish and hydrate the scalp. It is formulated with Glyzer CT200 and Glyzer CT500, a light and medium spreading emollient that is compatible with common UV sunscreen actives.

Phase	Ingredient	INCI	Function	%
A1	**Glyzer CT200**	**Caprylic/Capric/Lauric Triglyceride**	**Emollient**	**49.00**
A2	**Glyzer CT500**	**Modified Cocoglyceride**	**Emollient**	**15.00**
A3	Butyl Methoxydibenzoylmethane	Butyl Methoxydibenzoylmethane	Sunscreen Active	1.00
A4	Ethylhexyl Methoxycinnamate	Ethylhexyl Methoxycinnamate	Sunscreen Active	7.50
A5	Homosalate	Homosalate	Sunscreen Active	15.00
A6	Ethylhexyl Salicylate	Ethylhexyl Salicylate	Sunscreen Active	5.00
A7	Octocrylene	Octocrylene	Sunscreen Active	7.50

Procedure	
1	In an appropriate container, load **Glyzer CT200** and **Glyzer CT500**. Start mixing
2	While mixing, add the remaining ingredients. Continue mixing until completely homogeneous.

Emollient Application Chart

Contact Angle

- 17.10
- 30.00
- 40.00
- 50.00
- 62.40

Surface Tension

18.00 — 40.50

- Glyzer CE300, CE200 and CE500 have close application profile with silicone oils.

Glyzer CE200	Volatile Silicones
Glyzer CE300 Glyzer CE500	None-volatile silicones

- ✔ Spredability
- ✔ Biodegradable
- ✔ No build-up

- Glyzer CT's have the same viscosities as mineral oil, yet with higher polarity.
- Glyzer CT200 has the benefit that it helps in dandruff conditions
- There is an advantage in blending CT's and CE's

Clean. Green. Sustainable

Emollients Matrix

Approved by ECOCERT RAW MATERIAL — COSMOS APPROVED

ewg Rating 1

100% NATURAL ISO 16128-1 — 1.00 RENEWABLE CARBON INDEX

PRODUCTS	SPREADABILITY	REFRACTIVE INDEX	PIGMENT DISPERSION	RHBL	APPLICATIONS					
					Body Care	Face Care	Sun Care	Hair Care	Colors	Lip Care
Glyzer CT 100 Caprylic/Capric Triglyceride	★★★☆☆	★★★★☆	★★★★☆	10.35	✓	✓				
Glyzer CT 200 Caprylic/Capric/Lauric Triglyceride	★★★☆☆	★★★★☆	★★★★★	9.5	✓	✓	✓	✓	✓	
Glyzer CT 500 Cocoglycerides	★★★☆☆	★★★★☆	★★★★★	4.5 - 5.5	✓	✓	✓		✓	✓
Glyzer CT 600 Tricaprylin	★★★★☆	★★★★☆	★★☆☆☆	11	✓	✓		✓		
Glyzer CE 200 Isoamyl laurate	★★★★★	★★★★★	★★★★☆	11.5	✓	✓	✓	✓		✓
Glyzer CE 300 Coco Caprylate / Caprate	★★★★★	★★★☆☆	★★★★☆	10.6	✓		✓	✓	✓	✓

Iodine Value	0.5	Peroxide Value	1

NATURA AEROPACK CORPORATION

Cocolatum

Skin Protectant

COCOLATUM

COCOGLYCERIDES (AND) CERA ALBA (BEES WAX) (AND) EUPHORBIA CERIFERA (CANDELILA WAX)

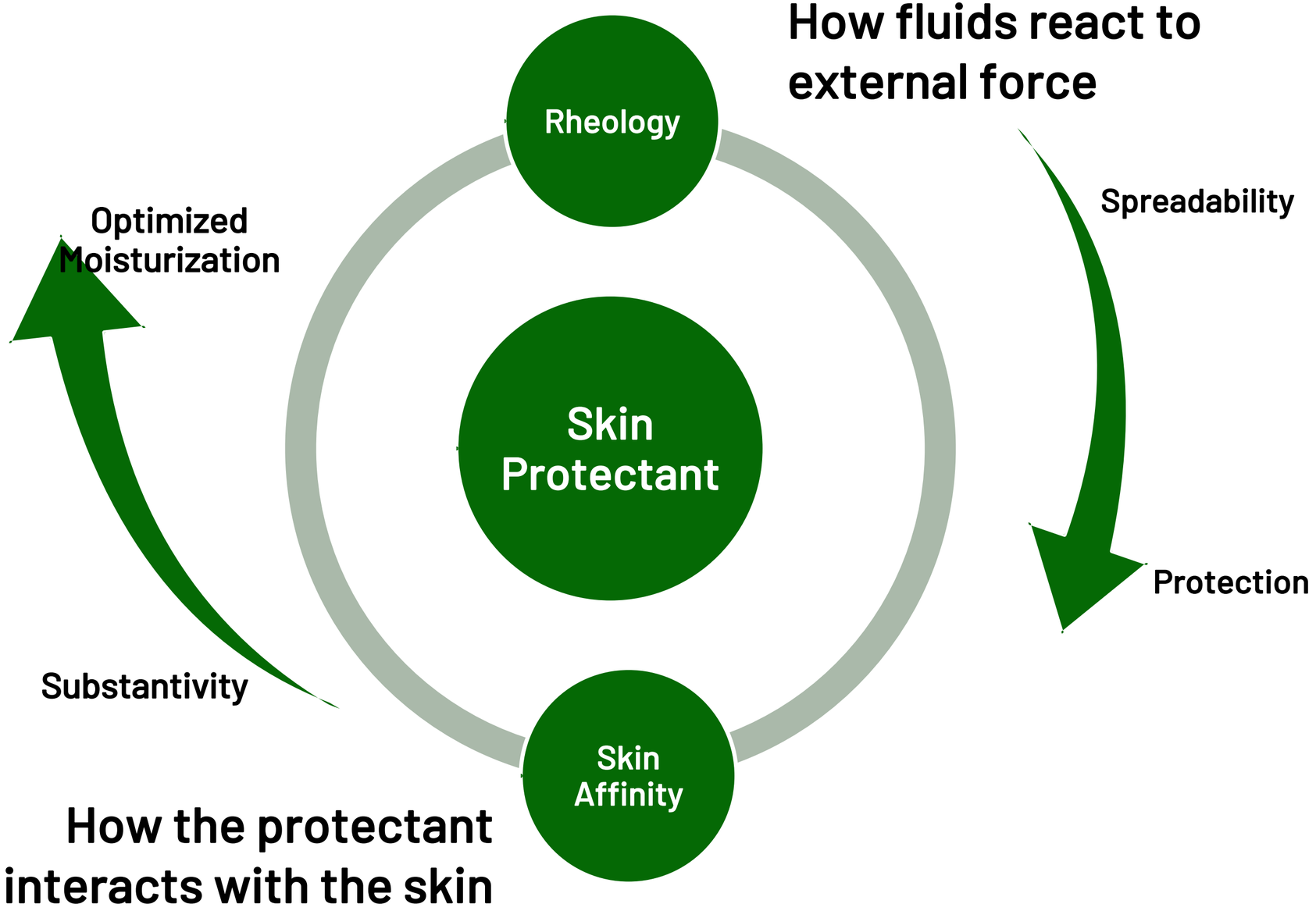
Cocolatum 501 is is a 100% natural intensive skin moisturizer that helps improve water retention of the skin, thus promoting skin smoothness. It is an excellent substitute for petroleum-derived moisturizing products that provides skin barrier. It also contains antioxidant that helps skin to reduce cell damage.

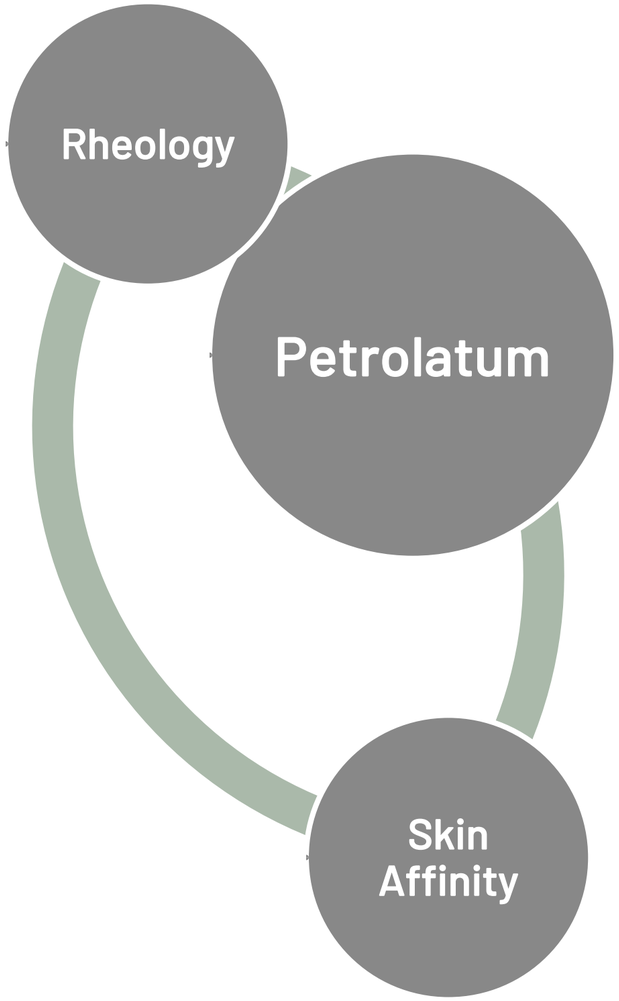
CAS Numbers:
68606-18-8, 8016-60-2, 8006-44-8

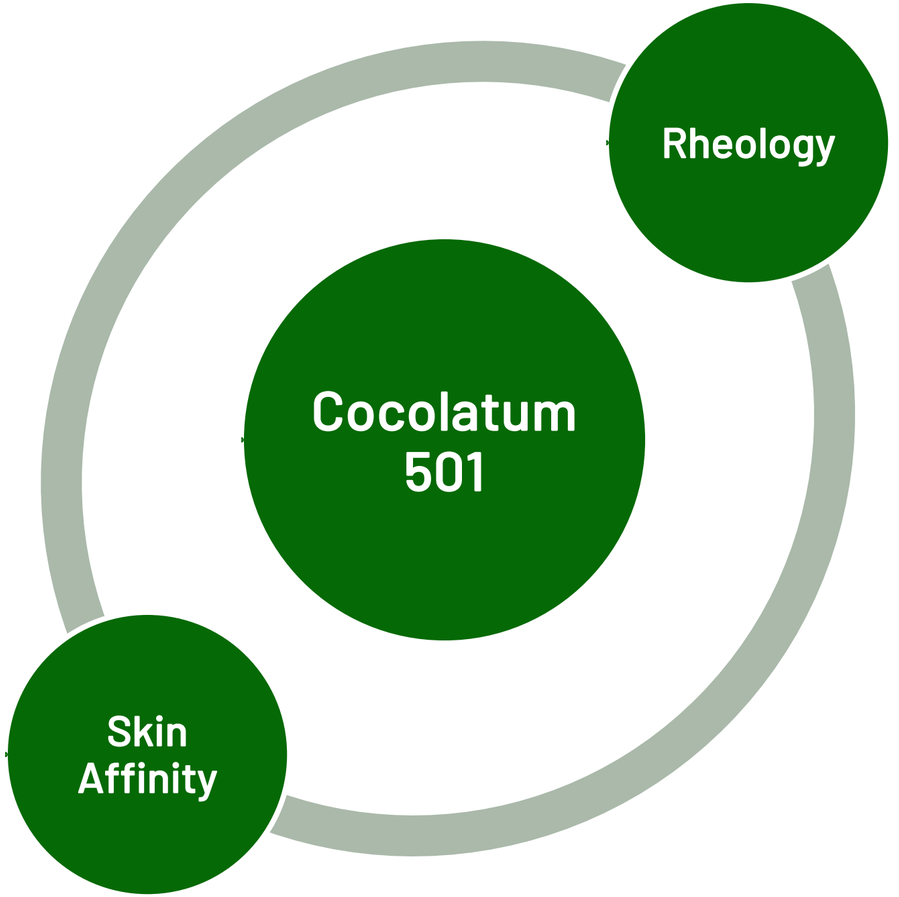
Features and Benefits

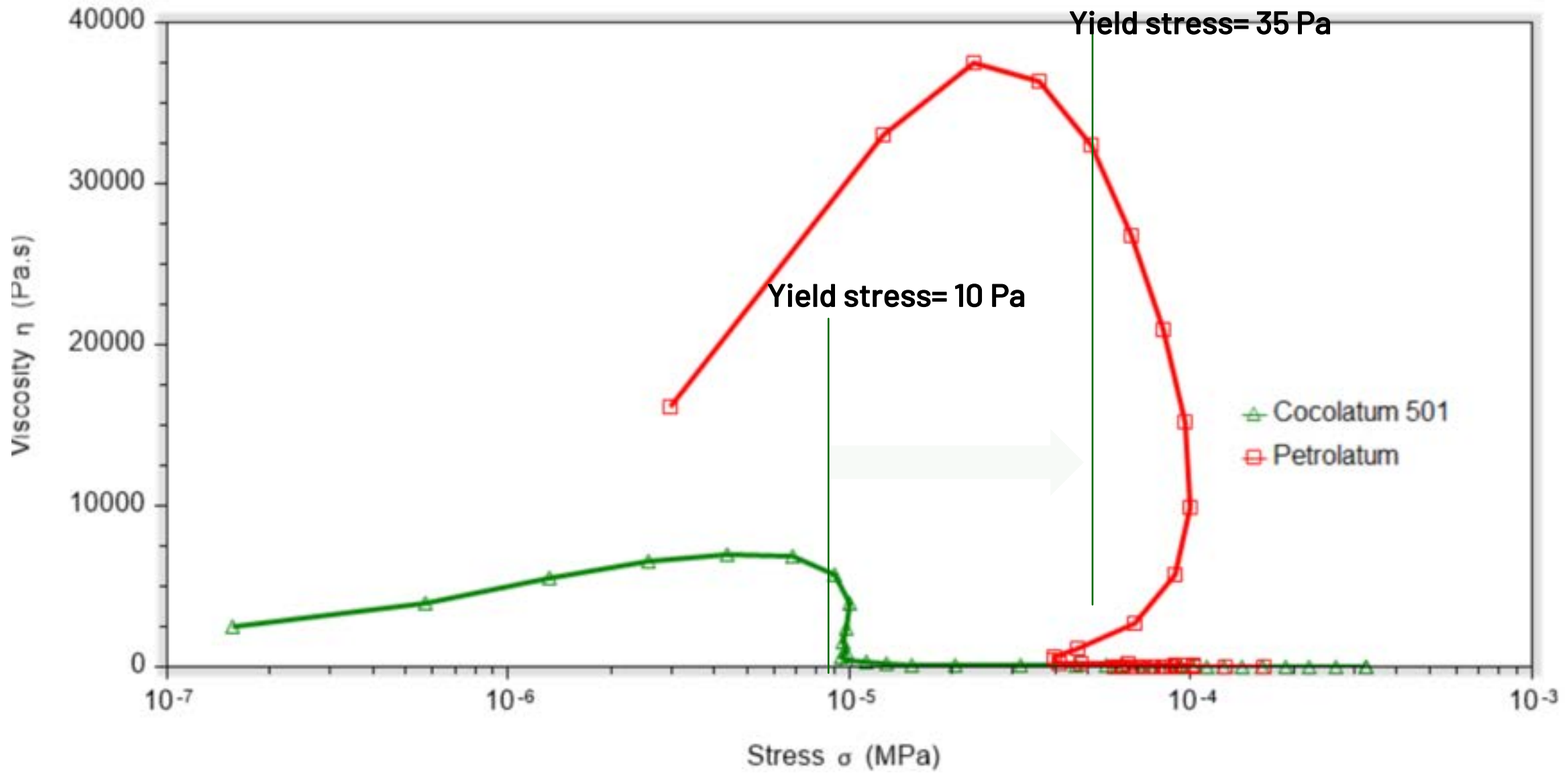
- Better spreadability
- Non-comedogenic
- Contains lauric acid, known for its natural antibacterial property
- Has moisturizing property, good for treatment of skin rashes
- Mild; suitable for sensitive and oily skin
- Can be used together with essential oil to relieve inflammation and promote relaxation
- Derived from natural source and biodegradable
- EO/PO free
- Preservative-free
- Clinically proven hypoallergenic and to heal diaper rash

Appearance	Opaque Gel
Color	Slightly Yellowish**
Density, g/mL	0.94-0.97









Rheology profile of Cocolatum 501 and petrolatum at 37°C

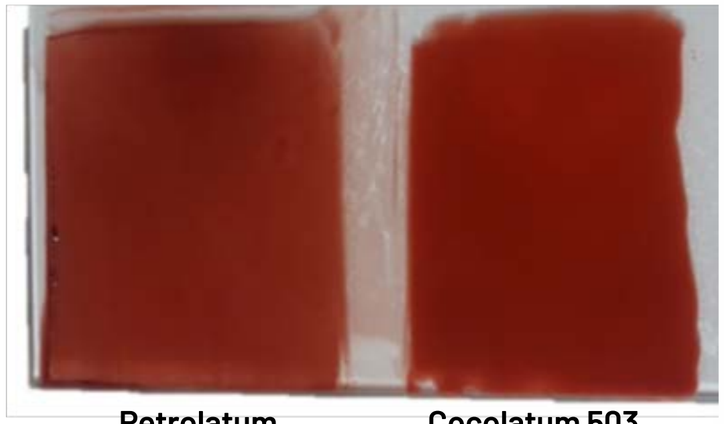
- **Rheology**
- **Thixotropic Emollient**
  Shear thining
- **Better Spreadability**
  Lower viscosities and yield stress
- **Less Tacky Skin Feel**
- **Better Washing Off Ability**

Better Washing-off ability

0th hour

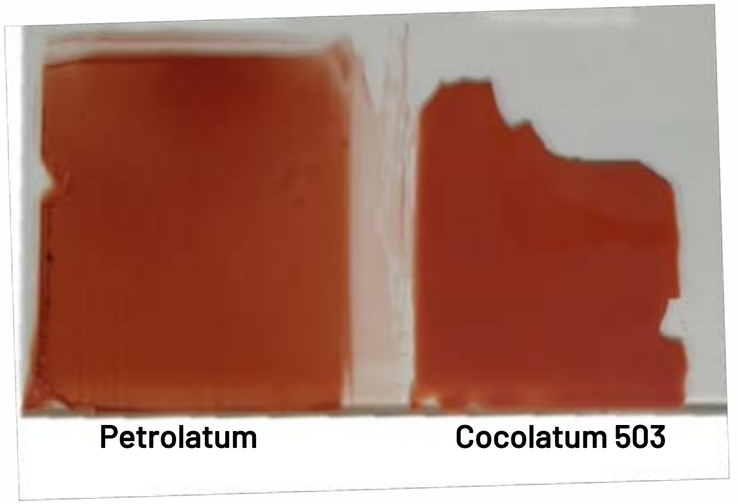
Petrolatum Cocolatum 503

3rd hour



Petrolatum Cocolatum 503

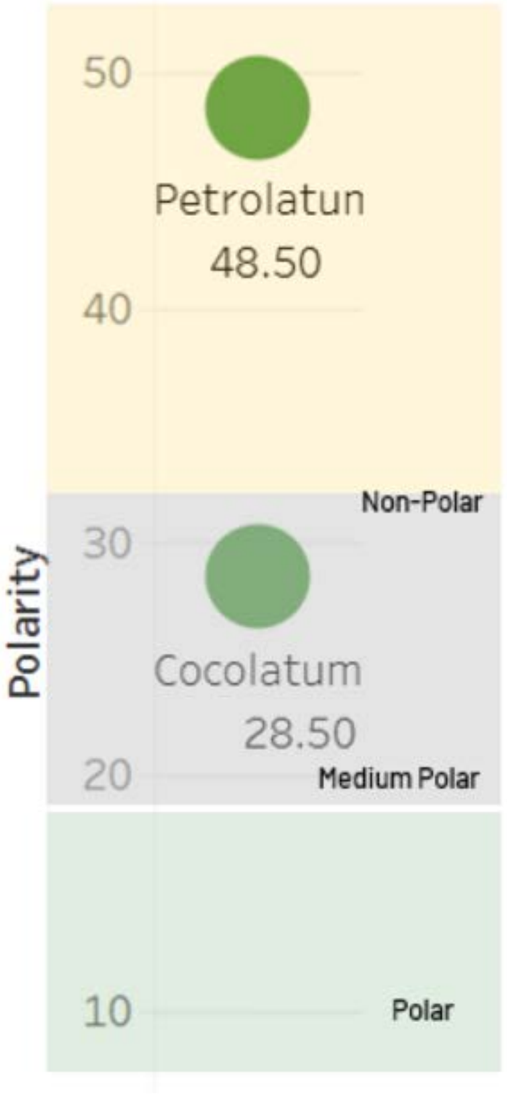
20th hour



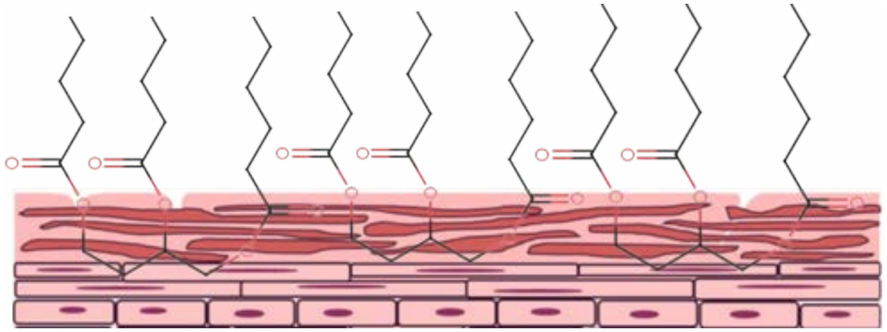
Petrolatum Cocolatum 503

Cocolatum 501 does not build up on skin and clothes with repeated use

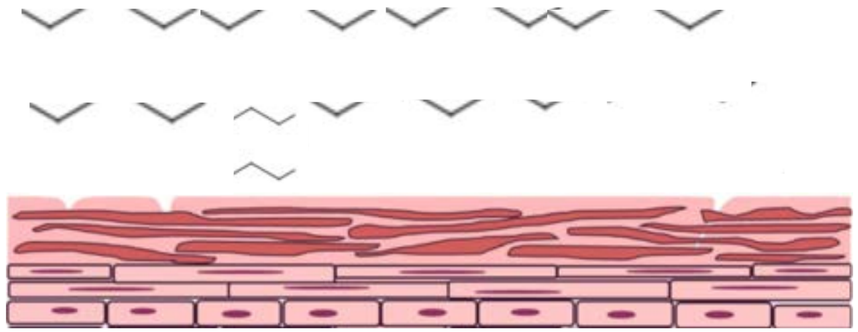
Skin Affinity



- Cocolatum 501 is a medium polar occlusive, therefore it has better affinity into the skin.
- Since it contains cocolgycerides, its lauric acid further strengthens the affinity of this occlusive to the stratum corneum
- Both skin affinity and rheology makes Cocolatum 501 an effective

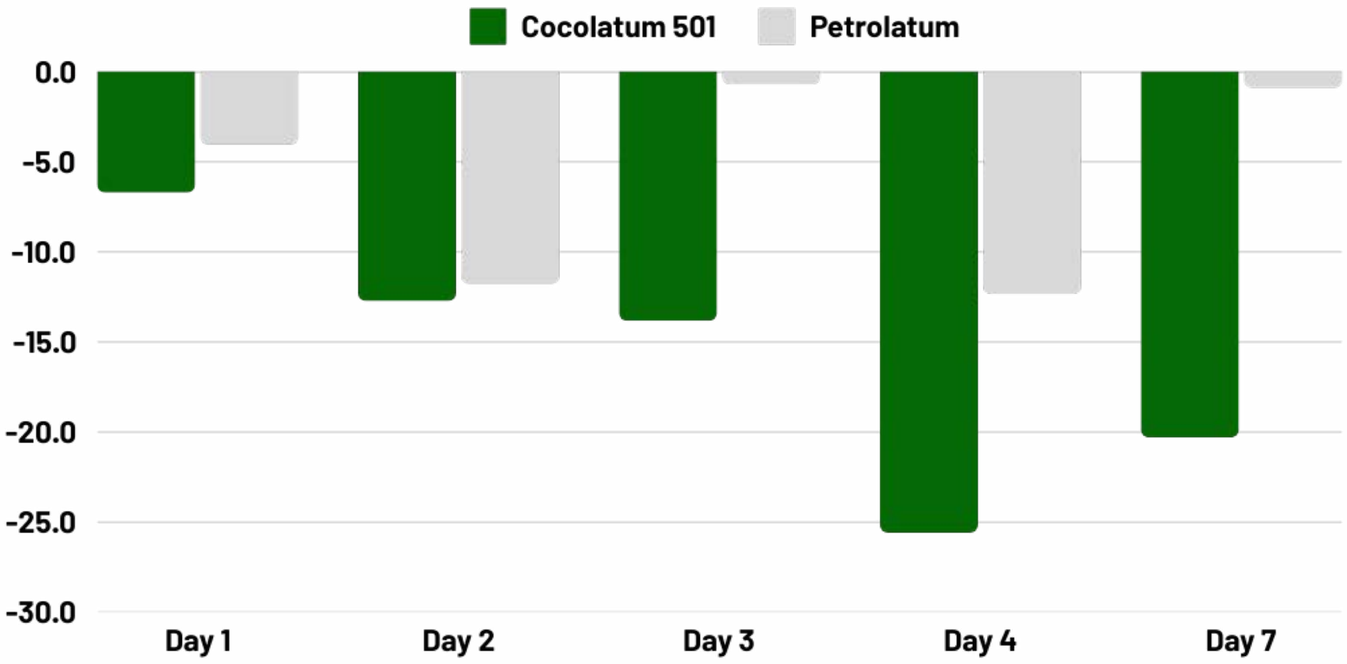


Cocolatum 501 on skin



Petrolatum on skin

Skin Moisturization



Continued application of the skin protectants within one week of 20 subjects

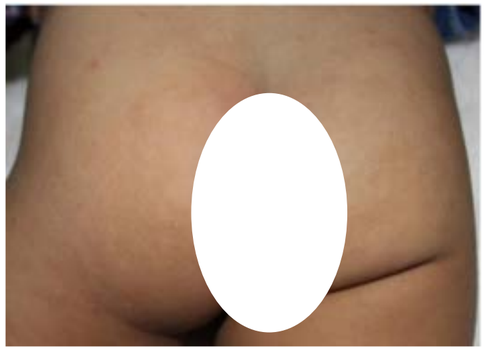
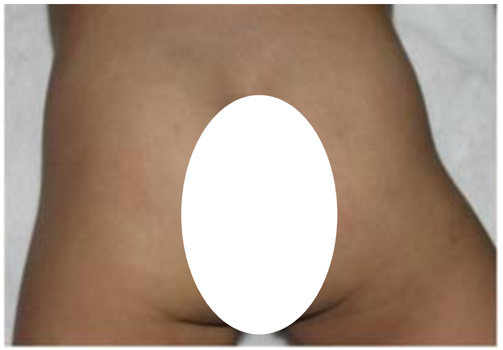
Cocolatum 503 better lowers the transepidermal water loss within a week of application than petrolatum

Cocolatum 501– Clinically tested

Cocolatum 501 passed the **Induction Phase (2I-Day RIPT) and the Sensitization Phase followed by Challenge Tests** and therefore can be classified was **"hypoallergenic"** with low probability of inducing allergic reactions to consumers with sensitive skin.

Cocolatum 501– Clinically tested: Diaper Rash: Heals diaper rash within seven days of application



Clinical Trial Management & Testing Associates, Inc.

Wound Applicability of Cocolatum 501

Minor cuts	Abrasions
Burns	Chapped lips
Pressure Ulcers	Dry skin
Fresh tattoo wounds	Diaper rash

Lacerations	Surgery wounds
Deep punctures	Diabetic foot ulcers
Avulsions	

Egg Lip Balm (SPF30)

PHC-PF-24-067

Indulge in the tropical goodness of our SPF 30 coconut-derived lip balm, meticulously crafted with natural ingredients to provide superior hydration and sun protection, leaving your lips irresistibly smooth and nourished. Say goodbye to dryness and hello to a luscious, beach-ready pout!.

Phase	Ingredient	INCI	Function	%
A1	**Cocolatum 501**	**Cocoglycerides (and) *Cera Alba* (Bees) Wax (and) *Euphorbia cerifera* (Candelilla) Wax**	**Skin protectant**	**71.5**
A2	Candelilla Wax	*Euphorbia cerifera* (Candelilla) Wax	Thickener	4.0
A3	Cetyl Alcohol	Cetyl Alcohol	Opacifier	2.0
A4	**Glyzer CT200**	**Caprylic/Capric/Lauric Triglycerides**	**Emollient**	**1.0**
B1	Flavor		Flavor	1.0
B2	Vitamin E Acetate	α-Tocopheryl Acetate	Anti-oxidant	0.5
B3	Titanium Dioxide	CI 77891	Active	10
B4	Zinc Oxide	CI 77947	Active	10

Procedure

1	Load **Cocolatum 503**, Candelilla wax, Cetyl Alcohol and **Glyzer CT200** into a single vessel and heat.
2	Continuously stir during melting until temperature reaches 65°C to 70°C and until appearance becomes homogeneous.
3	Cool down to 55°C.
4	Add in the flavors and colorants and continuously stir until homogeneous and no lumps of pigment remain.

Thank You!

Your feedback is important to us!

NATURA AEROPACK CORPORATION

Clean. Green. Sustainable Ingredients

all from the goodness of coconuts

Mild **SURFACTANTS**

Skin-loving **EMOLLIENTS**

Easy to use **BLEND CONCENTRATES**

Functional **SPECIALTY INGREDIENTS**

Natural · 100% COCONUT · MILD & GENTLE · CRUELTY FREE · ECO FRIENDLY · SUSTAINABLE · COCONUT DERIVED