

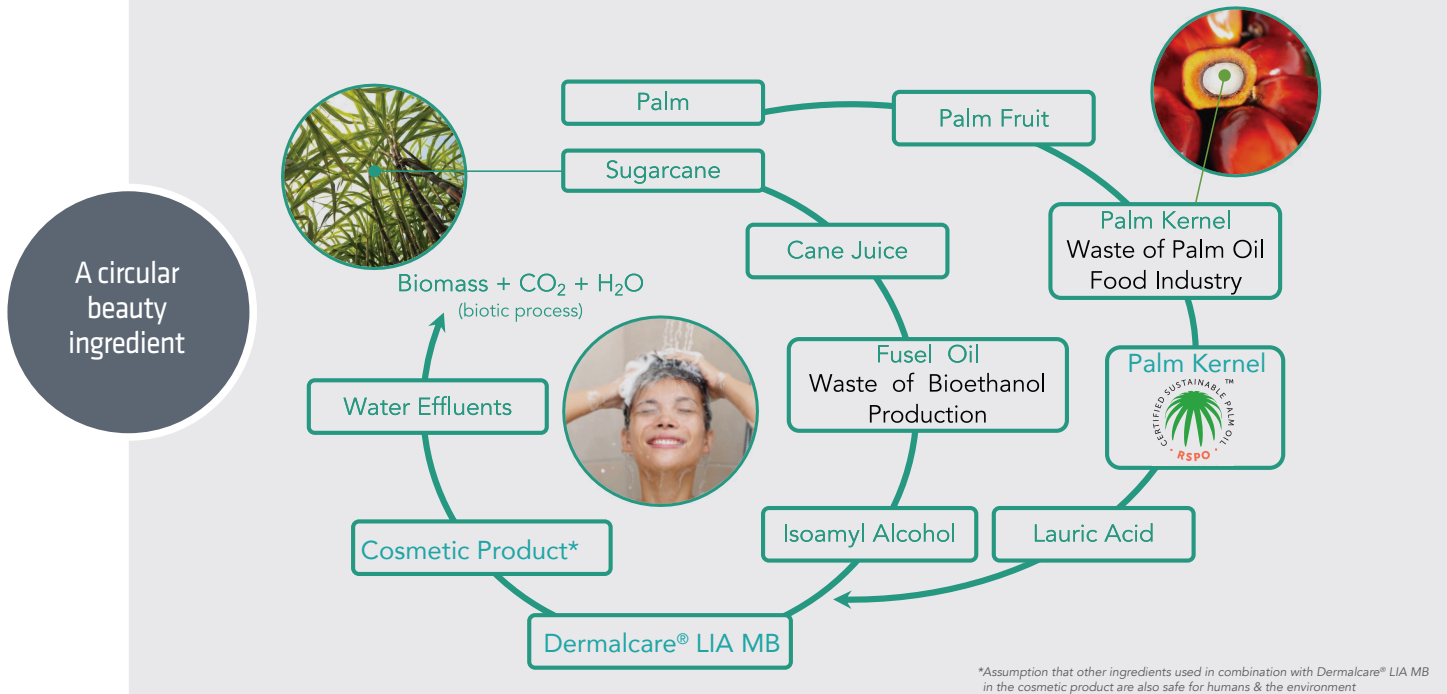
Dermalcare® LIA MB

The winning combo between sustainability & performance in beauty care

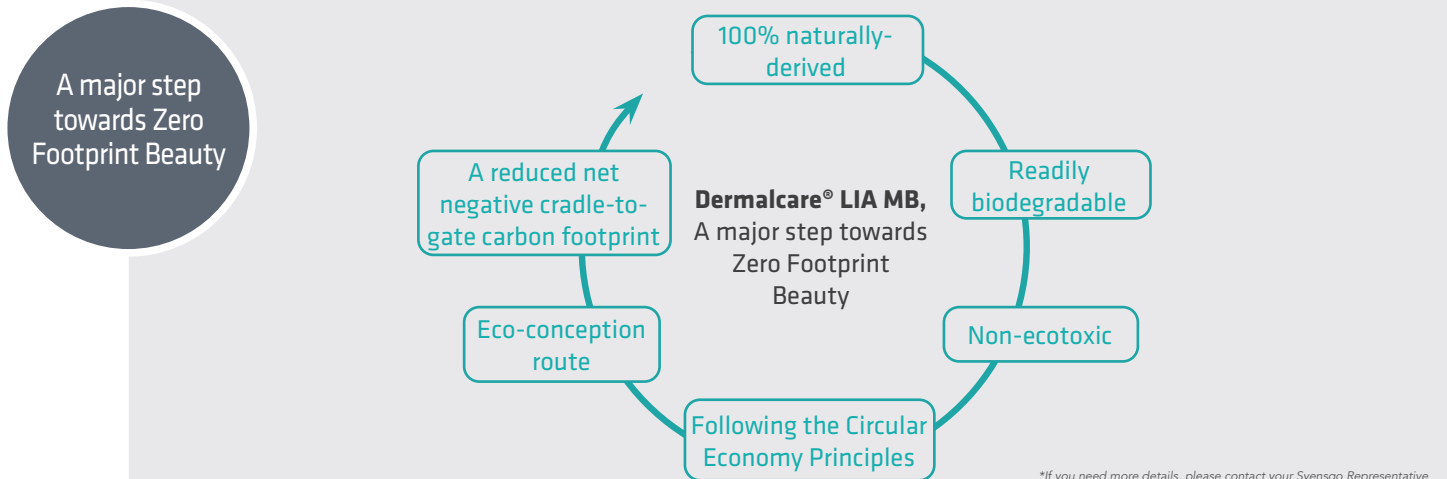


Dermalcare® LIA MB is the winning solution for today and for tomorrow with great sustainability credentials and a great performance profiles. It is not “just” a Clean Beauty ingredient delivering good performance while meeting consumer expectations in terms of naturalness, it is a Circular Beauty Ingredient with a reduced Cradle-To-Gate Carbon Footprint which helps formulators produce beauty products that take a major step towards carbon neutrality.

Dermalcare® LIA MB is made by an esterification reaction between the **lauric acid** which comes **from RSPO MB palm kernel oil** and the **isoamyl alcohol** which comes from **sugarcane**. Palm oil used in food application mainly comes from the flesh of the fruit, while the lauric acid used to produce **Dermalcare® LIA MB** is derived from the kernel.



Thanks to an optimized conception route, the **Dermalcare® LIA MB** provides a significant reduction of the carbon footprint over the benchmarks. It leads to a net cradle-to-gate reduced carbon footprint*, meaning that, on top of delivering equivalent performances to the silicones in the applications, it is going to be an enabler for our customers to reach their carbon neutrality commitments.



Dermalcare® LIA MB

A winning natural alternative to non-volatile silicones



A 100% natural origin, readily biodegradable, non-toxic, non-irritating and COSMOS- validated ester oil derived from sugar cane achieving a performance comparable to non-volatile silicones (e.g. amodimethicone) in hair products. **Dermalcare® LIA MB** enables to formulate high performing hair conditioning products for all hair types with no negative, while addressing consumers concern about sustainability.

Key features

- Improves wet & dry combing forces
- Improves hair softness
- Silicone-like sensorial signature: soft, non-greasy feel and free-flowing hair
- Universal: effectively conditions all hair types (Caucasian, Asian, textured, virgin, damaged) with no negative (no heaviness and cleanliness issue)
- Can be used across end-products categories: shampoos, conditioners, treatments
- Can be used into clear shampoos
- Less build-up/volume-down effect in multiple application versus silicone
- Replacement ratio (silicone: Dermalcare® LIA MB): 1:1 for shampoos; 1:2 to 1:2.5 for conditioners

INCI name: Isoamyl Laurate

Contrary to plant oils and standard ester oils like IPM, **Dermalcare® LIA MB** combines the efficacy, lightweightness and universality of amodimethicone while being 100% naturally-derived.

Benefits of Dermalcare® LIA MB versus Plant Oils and Standard Ester Oils

		Plant Oils	Isopropyl Myristate	Amodimethicone	Dermalcare® LIA MB
Primary benefits	Provides ease of combing	✓	✓	✓	✓
	Provides softness	✓	✓	✓	✓
Universality	Conditions with lightness (free-flowing hair)	X	✓	✓	✓
	Conditions all hair types, including damaged hair, with no negatives	≈ ⁽¹⁾	X	✓	✓
	Clear shampoos possible at performance-relevant levels	≈ ⁽²⁾	≈ ⁽³⁾	≈ ⁽³⁾	≈ ⁽³⁾
Good for the Planet	Readily biodegradable	✓	✓	X	✓
	100% Plant-Based	✓	X	X	✓

(1) Requires the use of specific solubilizers like Alkamuls® PEG-16CO. Not suitable for fine damaged hair.

(2) Possible if specific solubilizers like Alkamuls® PEG-16CO are used.

(3) Solubilizer not required but drop of viscosity that can be recovered by adding standard thickeners.

A winning
100%
plant-based
alternative

Dermalcare® LIA MB

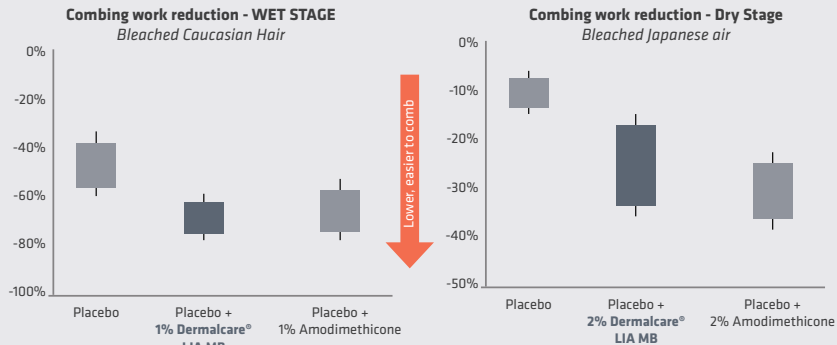
A winning natural alternative to non-volatile silicones



Dermalcare® LIA MB provides efficient wet & dry combing force reduction, comparable to amodimethicone.

Efficient Combing Force Reduction

Impact of Dermalcare® LIA MB on Wet & Dry Combing Forces of Shampoos



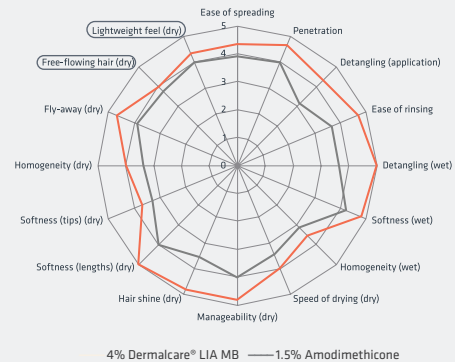
Shampoo composition in active: 11.5% SLES, 2.0% CAPB, 1.5% Cocamide MIPA, 1.5% PEG-150 distearate, 0.2% Jaguar® Excel, 0.4% Sodium Benzoate, 0.2% Salicylic Acid, 1.5% NaCl + [0 - 2.0%] Dermalcare® LIA MB or [0 - 2.0%] Amodimethicone

Similar sensorial signature to silicones

Conditioning hair while keeping it light and free-flowing can be a challenge when formulating without silicones. **Dermalcare® LIA MB** provides the solution for conditioning hair with the lightweightness of silicones.

Performance Profile of Rinse-Off Conditioners with either Amodimethicone or Dermalcare® LIA MB

Salon Half-Head Testing - 3 models with highlighted hair



Conditioner composition: 5% cetearyl alcohol, 3.1% Fentacare® BTMAC I 80, 1.5% Fentamine® 301U MB (SAPDMA), 0.6% glycerin, 0.5% glyceryl stearate, 0.4% sodium benzoate, 0.2% salicylic acid and 4% Dermalcare® LIA MB or 1.5% Amodimethicone

Dermalcare® LIA MB can be used across end-products categories (shampoo, conditioner, treatment) to condition any type of hair (Caucasian, Asian, textured, virgin, damaged..)

Universality of Use

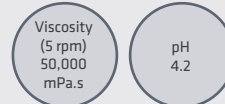
Crystal-Clear Conditioning Shampoo for Damaged Hair (ref SH0166)

Ingredients	% as supplied
Deionized Water	Qs 100
Naternal™ Excel Guar Hydroxypropyltrimonium Chloride	0.2
Rhodapex ESB 30HA1 Sodium Laureth Sulfate	11.5
Mirataine® 50 ULB Cocamidopropyl Betaine	2.0
Dermalcare® LIA MB Isoamyl Laurate	2.0
Cocamide MIPA	1.5
PEG-150 Distearate	1.5
Sodium Benzoate, Salicylic Acid	0.6
Citric Acid (50% sol)	Qs pH 4.5-5.0



Extra Strength Hair Mask for Damaged Hair (ref 18DL0041)

Ingredients	% as supplied
Deionized Water	Qs 100
Fentacare® 2231 EF Behenrimonium Chloride	2.5
Stearyl Alcohol	3.5
Cetearyl Alcohol	2.5
Glycol stearate	0.5
Preservative	Qs
Dermalcare® LIA MB Isoamyl Laurate	3.0
Glycerin	1.0



Dermalcare® LIA MB

A winning natural alternative
to non-volatile silicones



To answer consumers demand for specific care of textured hair, formulators are led to develop milder products that are respectful to the hair & scalp. Delivering mildness and performance out of stable formulas is usually a challenge. Gentle Hydrating Shampoo showcases Syensqo's Dermalcare® LIA MB as a winning alternative to silicone, combined with the conditioning polymers Jaguar® C162 & Jaguar® C17, and with the Ultra Low Salt Betaine Mirataine® CB 35 ULS HP MB. All this combination enables to design ultra mild formula delivering the expected level of foam, clean & care performance (soft, hydrated) to Textured Hair without SLES/SLS and silicone.

Formulation example with Dermalcare® LIA MB

Ingredient	% as supplied	% in active
Deionized Water	Qs 100	
Mirataine® CB 35 ULS HP MB Coco Betaine	22,9	8
Geropon® T77 PC MB Sodium Methyl Oleoyl Taurate	7	5
Disodium Laureth Sulfosuccinate	6,2	2
Cocamide MIPA	1.5	
Dermalcare® LIA MB Isoamyl Laurate	1,5	
Glycerin	1,5	
Jaguar® C162 Hydroxypropyl Hydroxypropyltrimonium Guar	0.5	
Jaguar® C17 Hydroxypropyltrimonium Guar	0,2	
Phenoxyethanol	1	
PEG-150 Distearate	0,7	
Citric Acid (50% sol)	Qs pH 5.5 5,8	

Fiber &
Scalp
Respect

Abundant,
Rich, creamy
& caring
FOAM

NO
Silicone

Conditioning
& combing

Ultra Mild
No SLES/SLS

Appearance
Opaque

Viscosity
10860 mPa.s
@10 rpm

Dermalcare® LIA MB

The upcycled green emollient with light touch unlocking new sensations: your ally for skin care formulations



Dermalcare® LIA MB is a 100% plant-based, readily biodegradable, emollient designed to take Circular Economy principles into account.

This ester is designed from the Green Chemistry principles with a low energy process thanks to an enzymatic reaction of upcycling food wastes.

Dermalcare® LIA MB will offer light and dry skin feel with excellent spreading and solubilizing properties.

Dermalcare® LIA MB also helps formulators produce natural beauty products with nice aesthetics. It brings significant value to skin care formulations by making them feel light, more spreadable and less tacky. It can successfully replace silicones addressing consumer concerns about sustainability.

Key features

- COSMOS and NATRUE validated, RSPO MB certified and compatible with EU Ecolabel (2021/1870)
- Alternative to non-volatile silicones
- Possibility to formulate clear skin care formulation
- 100% naturally-derived light emollient
- Microbiome-friendly certified
- Readily biodegradable
- Upcycling process
- High spreading, light and non-greasy feel
- Pigment wetting and organic UV B filters solubilization
- Reduces tackiness of heavy emollients

INCI name: Isoamyl Laurate

Rheozan® SH
Emulsifier and Stabilizer, providing Velvety skin feel

Dermalcare® LIA MB
100% naturally-derived and Microbiome friendly certified light emollient. Silicone alternative

Anti Aging Serum

Ingredients	% as supplied
Deionized Water	Qs
Glycerin	3
Rheozan® SH Succinoglycan	0.3
Dermalcare® LIA MB Isoamyl Laurate	6
Anti aging actives ingredients	qs

Opaque serum

Brookfield Viscosity
1 840 mPa.s
10 rpm, 20°C

pH
6.8



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