

RESPLANTA®

WATER SOLUBLE OILS



SHARON
PERSONAL CARE



RESPLANTA® LINE



Resplanta® are non-ionic amphiphilic compounds with which vegetable oils can be incorporated with aqueous formulation, maintaining the transparency, without opacifying formulations or affect the foam. They also work as co-emulsifier and their versatile formulistic behavior makes them useful in many different and innovative compounds.

Resplanta® ingredients are produced using an exclusive trans-esterification technology, starting from pure vegetal oil and glycerin compounds.

Available in two different range of products:

- **Biodegradable range RSPO Certified (Resplanta®)**
- **COSMOS and RSPO Certified (Resplanta® PhytoNat).**

CHOOSE THE BEST FOR YOUR FORMULA:

RESPLANTA® BIODEGRADABLE RANGE

RSPO CERTIFIED

The standard range of RESPLANTA® includes non-ionic amphiphilic compounds, obtained starting from a wide range of vegetable oils and ethoxylated glycerin. A high biodegradability has been shown.

Resplanta® ALMOND
Resplanta® ARGAN
Resplanta® BABASSU
Resplanta® COCONUT
Resplanta® COTTON
Resplanta® GRAPE
Resplanta® JOJOBA
Resplanta® SHEA
Resplanta® MACADAMIA
Resplanta® OLIVE
Resplanta® PEACH
Resplanta® AVOCADO
Resplanta® RICE
Resplanta® SESAME
Resplanta® WHEAT
Resplanta® SAFFLOWER
Resplanta® LINSEED
Resplanta® CAMELINA
Resplanta® SUNFLOWER

Almond Oil Glycereth-8 Esters
Argan Oil Glycereth-8 Esters
Babassu Oil Glycereth-8 Esters
Coconut Oil Glycereth-8 Esters
Cotton Seed Oil Glycereth-8 Esters
Grape Seed Oil Glycereth-8 Esters
Jojoba Oil Glycereth-8 Esters
Shea Butter Glycereth-8 Esters
Macadamia Oil Glycereth-8 Esters
Olive Oil Glycereth-8 Esters
Peach Kernel Oil Glycereth-8 Esters
Avocado Oil Glycereth-8 Esters
Rice Oil Glycereth-8 Esters
Sesame Oil Glycereth-8 Esters
Wheat Germ Oil Glycereth-8 Esters
Safflower Seed Oil Glycereth-8 Esters
Linseed Oil Glycereth-8 Esters
Camelina Sativa Seed Oil Glycereth-8 Esters
Sunflower Seed Oil Glycereth-8 Esters



TECHNOLOGY BEHIND INNOVATION AND SUSTAINABILITY

RESPLANTA® PHYTONAT

COSMOS CERTIFIED

RSPO CERTIFIED

Non-ionic surfactants derived from polyglycerols, with excellent dermal compatibility. As the standard range, Resplanta® PhytoNat maintain characteristics of starting oils, but also marked surfactant and cleansing properties, rebalancing the degreasing effect of anionic and amphoteric surfactants.

Resplanta® PHYTO ALMOND	Almond Oil Polyglyceryl-4 Esters
Resplanta® PHYTO BABASSU	Babassu Oil Polyglyceryl-4 Esters
Resplanta® PHYTO BROCCOLI	Brassica Oleracea Italica Seed Oil Polyglyceryl-4 Esters
Resplanta® PHYTO CAMELINA	Camelina Sativa Seed Oil Polyglyceryl-4 Esters
Resplanta® PHYTO LINSEED	Linseed Oil Polyglyceryl-4 Esters
Resplanta® PHYTO MACADAMIA	Macadamia Seed Oil Polyglyceryl-4 Esters
Resplanta® PHYTO OLIVE	Olive Oil Polyglyceryl-4 Esters
Resplanta® PHYTO POMEGRANATE	Punica Granatum Seed Oil Polyglyceryl-4 Esters
Resplanta® PHYTO PUMPKIN	Pumpkin Seed Oil Polyglyceryl-4 Esters
Resplanta® PHYTO SAFFLOWER	Safflower Seed Oil Polyglyceryl-4 Esters
Resplanta® PHYTO ARGAN	Argan Oil Polyglyceryl-4 Esters
Resplanta® PHYTO SHEA	Shea Butter Polyglyceryl-4 Esters
Resplanta® PHYTO SUNFLOWER	Sunflower seed oil Polyglyceryl-4 Esters
Resplanta® PHYTO HEMP IN-FUSION	Cannabis Sativa Seed Oil Glycereth-8 Esters
Resplanta® PHYTO ARGAN	Argan Oil Polyglyceryl-4 Esters

CHINA LISTED references available:

Resplanta® PHYTO-6 ARGAN	Argan Oil Polyglyceryl-6 Esters
Resplanta® PHYTO-6 OLIVE	Olive Oil Polyglyceryl-6 Esters
Resplanta® PHYTO-6 ALMOND	Sweet Almond Oil Polyglyceryl-6 Esters



AN ETHICAL CHOICE STARTING FROM RAW MATERIALS

Sourcing of raw materials is our starting point. Glycerin for esterification comes exclusively from RSPO certified plants. Vegetal oils are selected to support whenever possible, local suppliers and Fair Trade.



ONLY THE BEST FROM VEGETABLE OIL

As the process is not a direct condensation, the initial fatty acid composition is retained. Resplanta® perfectly reflect the appearance and composition of the starting oils. The precious unsaponifiable fraction, rich in **Phytosterols, Squalene, Vitamins** remains unchanged in Resplanta®.



GREEN CHEMISTRY PRODUCTION PROCESS

Resplanta® standard range has high biodegradability. PhytoNat selection is Cosmos approved.

RESPLANTA®: THE ACTIVE STRENGTH OF OIL



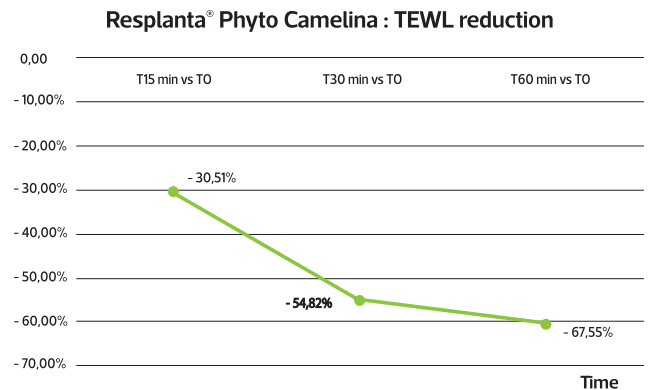
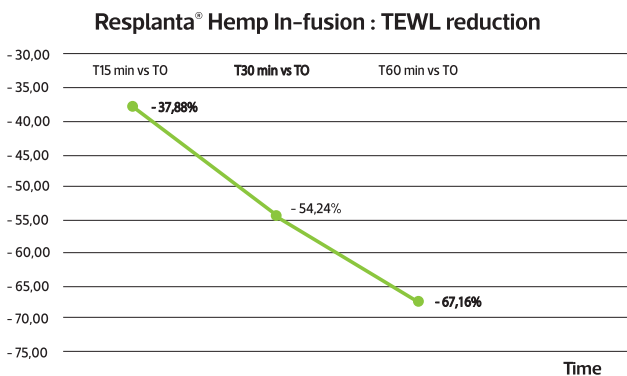
Enhancing skin barrier integrity: the right solution for scalp and for lips

RESPLANTA® PHYTO CAMELINA

A solution at 10% of Resplanta® Phyto Camelina has demonstrated efficacy in enhancing the integrity of the skin barrier of the scalp. TEWL value decreased by an average value equal to 30,51% after 15 minutes, 54,82% after 30 minutes and 60,55% after 60 minutes. This variation was statistically significant ($p < 0,05$).

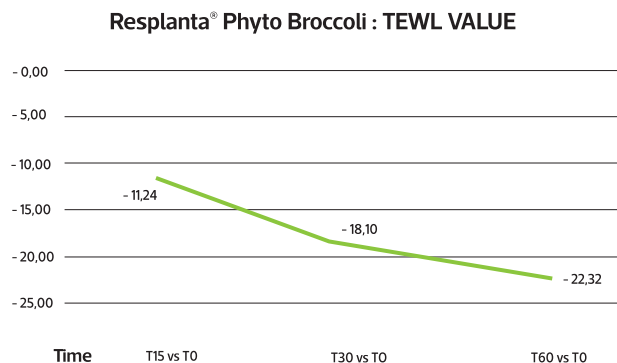
RESPLANTA® PHYTO HEMP IN-FUSION

A solution at 10% of Resplanta® Hemp In-fusion as demonstrated efficacy in enhancing the integrity of the skin barrier of the scalp. TEWL value decreased by an average value equal to 37,88% after 15 minutes, 54,24% after 30 minutes and 67,16% after 60 minutes.



RESPLANTA® PHYTO BROCCOLI

A solution at 10% of Resplanta® Phyto Broccoli has demonstrated efficacy in enhancing the integrity of the lips skin barrier. TEWL value decreased by an average value equal to 11,24% after 15 minutes, 18,10% after 30 minutes and 22,32% after 60 minutes.



Instant hair-repair effect for a luxurious texture and high sensoriality



RESPLANTA® PHYTO MACADAMIA and RESPLANTA® PHYTO LINSEED

A simple formulation containing 10% of Resplanta® has been tested on damaged hair strands.

Thanks to the unique fatty acid composition of macadamia oil rich in oleic acid, Resplanta® Phyto Macadamia shows good repairing properties on hair strands previously damaged with SLS solution. Linseed oil thanks to its high amount of linolenic acid, makes Resplanta® Phyto Linseed the perfect choice to enrich hair treatment products with luxurious texture and superior sensoriality.

The microscopic photos show a repairing effect recognized by the partial restoration of the hair cuticle damaged (Fig. 1) and treated with Resplanta® Phyto Macadamia (Fig. 2).

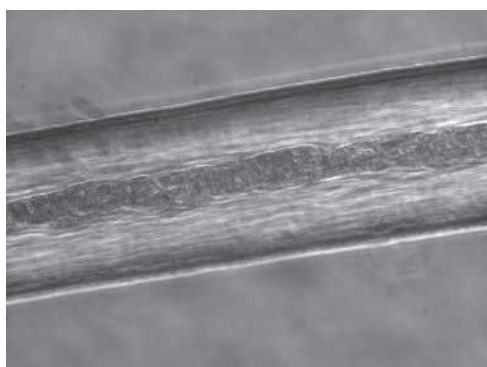


Fig. 1 – Stressed – not treated

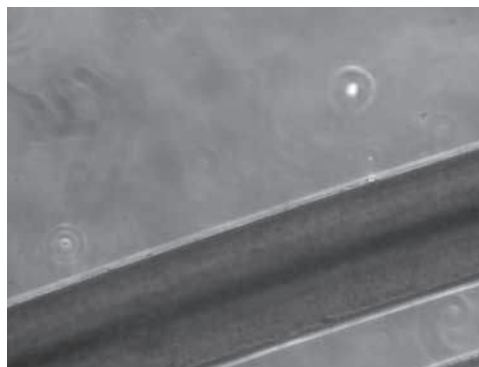


Fig. 2 – After treatment with Resplanta® Phyto Macadamia



RESPLANTA®: RE-THINKING OILS

PROTECTIVE PROPERTIES

Resplanta® Hemp In-fusion and Phyto Broccoli were tested in order to show their capacity to protect skin. A water-solution of 10% of Resplanta is effective in preventing the erythema chemically induced. They showed protective properties, avoiding erythema comparison, after the application of a 2% of SLS solution.

WATERPROOF MAKE-UP REMOVAL ACTIVITY

Resplanta® Babassu is rich in short chain fatty acids, offering cleansing and light, non-greasy emollient attributes, showing optimal waterproof make-up removal properties. A test showing the great de-make up performances of Resplanta® Babassu was carried out making a comparison between different Resplanta® Babassu dilutions and a market benchmark.

	BENCHMARK	RESPLANTA® BABASSU MB 15%	RESPLANTA® BABASSU MB 10%	RESPLANTA® BABASSU MB 5%
WIPES	6	4	5/6	5/6

Number of wipes necessary to remove waterproof mascara.

MIX & MATCH

A water-based gel solution with a mixture of:

1% of Resplanta® Phyto **Safflower**

1% of Resplanta® Phyto **Linseed**

1% of Resplanta® Phyto **Macadamia**

has been applied daily for 14 days, on beard and hair (20 male volunteers)

Self evaluation results:

Resplanta® Mix leaves beard softer and hydrated: > **50%**

Resplanta® Mix is well-tolerated by sensitive skin: > **70%**

Resplanta® Mix leaves hair softer and more straight: > **90%**

Resplanta® Mix leaves hair glossy and hydrated: > **60%**

Resplanta® Mix has been well tolerated by sensitive scalp: > **90%**



WATER SOLUBILITY

Resplanta® and Resplanta® PhytoNat are easily dispersible in water and able to give transparent solution when a little amount of surfactant is used. The level of water solubility and clarity depends on the fatty acid length of the starting vegetal oil. Resplantas with short, medium and long fatty acid chains give clear solution at pH>7, up to 15%. Longer fatty acids chains, for example Resplanta® Shea, Jojoba, Broccoli or Safflower, are more difficult to be perfectly solubilized.

Sharon Personal Care will give all the necessary support to create Natural Innovative Cosmetic formulations for the wellbeing of final customers

YOUR KEY TO CREATE INNOVATIVE TEXTURE

WHAT YOU CAN DO

Less is better with Resplanta®!

Make your formulation active without having to add **more**.

Biodegradable - Cosmos available - RSPO certified - Fair trade version available.

The different fatty acid composition of starting vegetal oils gives to Resplanta® various properties.

RESPLANTA®	SATURATED ACID %						UNSATURATED ACID%						RESPLANTA® INSPIRATION	
	C 10:0	C 12:0	C 14:0	C 16:0	C 18:0	C 20:0	C 16:1	C 18:1	C 18:2	C 18:3	C 20:1	C 22:1		
Resplanta® BABASSU	<10	44-46	15-20	<10	<10	-	-	10	<10	<10	-	-	SHORT CHAIN FATTY ACID Cleanser enhancing #mildcleansing #cleansingcare #notonlyoils	
Resplanta® COCONUT	<10	44-52	12-21	<10	<5	-	<10	<5	<5	<5	-	-		
Resplanta® ARGAN	-	-	-	10-16	<10	-	-	38-50	29-40	-	-	-	MEDIUM CHAIN FATTY ACID Conditioning and emolliency #skinchair #hairfood #natural conditioning	
Resplanta® HEMP- IN- FUSION	-	-	-	5-15	<5	-	-	10-16	45-65	14-30	-	-		
Resplanta® COTTON	-	-	<5	17-29	<5	-	-	13-44	40-63	-	-	-		
Resplanta® MACADAMIA	-	-	-	8-18	<5	-	16-24	53-67	<5	-	-	-		
Resplanta® OLIVE	-	-	-	7-16	<5	-	-	65-85	4-15	-	-	-		
Resplanta® RICE	-	-	-	12-18	-	<5	-	40-50	29-42	-	-	-		
Resplanta® WHEAT	-	-	-	13-20	<5	-	-	13-20	55-65	<10	-	-		
Resplanta® SHEA	-	-	-	<10	40-46	<5	-	43-48	<5	-	-	-	LONG CHAIN FATTY ACID Gives rich texture and good skin softening and refatting. #feedyourskin #oilsforskincare #softskin #richbutnotgrease	
Resplanta® ALMOND	-	-	-	<5	-	-	-	60-78	10-30	-	-	-		
Resplanta® PEACH	-	-	-	<10	-	-	-	58-68	20-31	<5	-	-		
Resplanta® AVOCADO	-	-	-	<5	-	-	-	60-78	10-30	<5	-	-		
Resplanta® Phyto PUMPKIN	-	-	-	6-15	5-10	-	-	30-40	40-60	-	-	-		
Resplanta® SUNFLOWER	-	-	-	5-8	<10	-	-	14-39	48-74	-	-	<5		
Resplanta® SESAME	-	-	-	7-12	<10	-	-	35-50	35-50	-	-	-		
Resplanta® Phyto CAMELINA	-	-	-	<10	13-19	-	-	10-24	30-45	35-40	10-15	<5		
Resplanta® Phyto LINSEED	-	-	-	<10	<5	-	-	20-30	10-20	50-60	-	-		
Resplanta® Phyto POMEGRANATE	-	-	-	<5	<5	-	-	<10	<10	50-85	-	-		
Resplanta® GRAPE	-	-	-	<10	<5	-	-	14-22	65-73	-	-	-		
Resplanta® JOJOBA	-	-	-	-	-	-	-	5-15	-	-	60-80	10-15%		This special selection with very long fatty acid chain, offers new possibility in the formulation. #Re-texturing your texture #circlelife
Resplanta® Phyto SAFFLOWER	-	-	-	<5	<5	-	-	13-21	-	-	73-79	-		
Resplanta® Phyto BROCCOLI	-	-	-	<5	-	-	-	10-15	9-13	<10	<10	40-60		



LOCK THE **HYDRATION** TO THE SKIN,
thanks to their water reservoir capacity



CREATE **EMOTIONAL TRASFORMING** TEXTURE
formulating without water



ADD **EMOLLIENCY**
without affect trasparency



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