

COMPANY PROFILE

Greentech

Greentech, a pioneer in plant biotechnology, develops and produces for the cosmetic, pharmaceutical and nutraceutical sectors, high-tech ingredients originating from the deep mechanisms of plants, algae, micro-algae and micro-organisms drawn from across the world.

Greentech through its pluridisciplinarity of Researchers is an example in the cosmetic industry. Greentech uses state-of-the-art technologies to transform natural ingredients into active and functional products like the Aquasiloil® range.

Aquasiloil® is an innovative alliance between lysine, essential amino acid, and triglycerides of natural fatty acids sourced in inca inchi, argan or sweet almond oils. Thanks to this association we obtain water soluble oils with biological and technical benefits. The formation of a micellar lotion offers cleansing and foaming properties while preserving the skin by improving its moisturization.

Aquasiloil® inca inchi and Aquasiloil® sweet almond are perfect components to reduce the quantity of irritant surfactants in shower gel and shampoo. Interfacial tension and foaming measurements helped to put in evidence that an initial formula containing 20% of Sodium lauryl sulfate can be replaced by a formula with 2% Aquasiloil® inca inchi or 2% Aquasiloil® sweet almond plus 10% of Sodium lauryl sulfate. Aquasiloil® sweet almond will be the most suitable for products with strong foaming effect, like bubble bath. The foam will be very aerial and if necessary it will be possible to associate it with the cocamidopropyl betaine's foam to densify the volume.

Aquasiloil® inca inchi and Aquasiloil® argan demonstrates by themselves a good make up remover effect. With only 1% we multiply the effect by 1.7 for Aquasiloil® inca inchi and 1.4 for Aquasiloil® argan compare to the placebo. In a make up remover we will be able to replace totally irritating PEG by Aquasiloil®, the skin will appear clear and soft.

Clinical studies reveals a huge moisturizing potential. Aquasiloil® inca inchi and Aquasiloil® sweet almond increases respectively the hydration by 23% and 22% after the application of a 10% cleansing lotion compare to the placebo. Aquasiloil® with its natural cleansing and foaming effect will improve your formulations by reducing the irritant potential of classical surfactants.

Contact us for product informations, samples and formulation ideas.



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FORMULATIONS

Shower Bubble

This solid gel bubble contains Aquasiloil® sweet almond that will bring moisturization and reduce surfactant content. The bubble under the tap water will create a pleasant bubble bath.

Phase	Product	INCI	%
A	Water ¹	Water	up to 100.000
	Unicert blue 05601-J ²	CI 42090	0.001
B	Genuvisco® carrageenan CG131 ³	Carrageenan	3.400
	Glycerin ⁴	Glycerin	6.000
C	Water ¹	Water	8.000
	Aquasiloil® sweet almond ¹	Water (and) Prunus Amygdalus Dulcis (Dweet Almond)	5.000
		Oil (and) Lysine (and) Sodium Chloride (and) Glycerin	
D	TEGO® Betain F50 ⁵	Cocamidopropyl Betaine	6.000
	Texapon® N70/SG ⁶	Sodium Laureth Sulfate	1.000
E	Geogard® 221 ⁷	Dehydroacetic Acid (and) Benzyl Alcohol	0.600
F	Nature superfruit ⁸	Fragrance	0.800

Procedure: Weight and mix phase A at 200 rpm. Weight and premix phase B until the complete dispersion. Add phase B to phase A. Heat combined phase AB to 85°C and mix at 200 rpm. Weight and mix phase C under slow stirring. Add phase C to combined phase AB under light stirring. Weight and mix phase D under slow stirring. Add phase D to combined phase ABC under light stirring. Weight phase E. Weight phase F. Add phase E and phase F to the formula under slow mixing. At 85°C, pour the mix directly into moulds.

Suppliers: 1 Greentech 2 Sensient 3 CP Kelco 4 Oleon 5 Evonik 6 BASF 7 Lonza 8 Expressions Parfumées.

Anti-Dandruff Shampoo

This dandruff control shampoo provides a strong cleansing effect with a low dosage of surfactants. Aquasiloil® sweet almond in addition of its micellar capacities moisturizes the scalp while Dandrilys®, a natural active eliminates dandruff, controls the sebum production and avoids itching.

Phase	Product	INCI	%
A	Water ¹	Water	up to 100.0
	Glycerin ²	Glycerin	5.0
	Genuvisco® carrageenan CG131 ³	Carrageenan	0.5
	Rheocare® XCN ⁴	Xanthan Gum	0.5
B	Merquat™ 7SPR Polymer ⁵	Polyquaternium-7	0.2
C	Plantacare® 1200 UP ⁶	Lauryl Glucoside	5.0
	TEGO® Betain F50 ⁷	Cocamidopropyl Betaine	5.0
D	Aquasiloil® sweet almond ¹	Water (and) Prunus Amygdalus Dulcis (Sweet Almond)	5.0
		Oil (and) Lysine (and) Sodium Chloride (and) Glycerin	
E	Dandrilys® (NAT) ¹	Water (and) Propanediol (and) Zizyphus Joazeiro Bark Extract	1.0
F	Geogard® 221 ⁸	Dehydroacetic Acid (and) Benzyl Alcohol	0.7
G	Fresh Karity ⁹	Fragrance	0.2
	Sepiclear G7 ¹⁰	Heptyl Glucoside	6.0

Procedure: Weight and mix phase A at 1000 rpm. Weight phase B. Add phase B to phase A under mixing (1500 rpm). Weight phase C and phase D. Add phase C and phase D to combined phase AB under light stirring, and until dispersion is complete. Weight phase E. Add phase E under light stirring. Weight phase F. Weight phase G. Add phase F and phase G to the formula under slow mixing; pH 6.5.

Suppliers: 1 Greentech 2 Oleon 3 CP Kelco 4 BASF 5 Lubrizol 6 BASF 7 Evonik 8 Lonza 9 Expressions Parfumées 10 Seppic

FORMULATIONS

Iced Regenerating Mask

Leave on the iced mask in a semi-thick layer for 2-3 minutes.
Rinse under water. The skin will be clean, moisturized and refreshed thanks to Flower acids® and Aquasiloil® sweet almond.

Phase	Product	INCI	%
A	Water ¹	Water	up to 100.0000
	Aquasiloil® sweet almond ¹	Water (and) Prunus Amygdalus Dulcis (Sweet Almond) Oil (and) Lysine (and) Sodium Chloride (and) Glycerin	5.00000
	Unicert blue 05601-J ²	CI 42090	0.00095
	Unicert yellow 5 08005-J ³	CI 19140	0.00003
B	Genuvisco® carrageenan CG131 ⁴	Carrageenan	0.10000
	Glycerin ⁵	Glycerin	3.00000
C	Rheocare®XCN ⁶	Xanthan Gum	0.10000
	Water ¹	Water	50.42000
D	Water ¹	Water	5.00000
	Flowers Acids SC® ¹	Water (and) Hibiscus Sabdariffa Flower Extract	2.00000
E	Water ¹	Water	1.00000
	Citric acid ⁷	Citric Acid	0.05000
F	Geogard®221 ⁸	Dehydroacetic Acid (and) Benzyl Alcohol	0.60000
G	Aloe Vera ⁹	Fragrance	0.40000
H	Dub Diol ¹⁰	Methylpropanediol	3.00000
	Aquakeep 10SH-NFC ¹¹	Sodium Acrylates Crosspolymer-2	5.00000

Procedure: Weight and mix phase A at 200 rpm. Heat phase A to 60°C. Weight and premix phase B and phase C until the complete dispersion. Heat phase B and phase C to 85°C. Add phase B and phase C to phase A and mix under 1000 rpm until to obtain an homogeneous gel. Cool combined phase ABC to 30°C under slow mixing. Weight phase D and add to the formula under slow stirring. Adjust pH to 7.00 with phase E. Weight phase F. Weight phase G. Add phase F and phase G to the formula under slow mixing. Weight phase H and mix. Add phase H to the formula under strong mixing (3000 rpm) until the complete dispersion.

Suppliers: 1 Greentech 2 Sensient 3 Sensient 4 CP Kelco 5 Oleon 6 BASF 7 Jungbunzlauer International AG 8 Lonza 9 Expressions Parfumées 10 Stéarinerie & Dubois 11 Kobo Products

Make Up Remover

This micellar lotion thanks to Aquasiloil® inca inchi will easily remove the make up while leaving a very soft skin.

Phase	Product	INCI	%
A	Water ¹	Water	up to 100.00
	Glycerin ²	Glycerin	5.00
	Isopentyldiol ³	Isopentyldiol	15.00
B	Aquasiloil® inca inchi ¹	Water (and) Plukenetia Volubilis Seed Oil (and) Lysine (and) Sodium Chloride (and) Glycerin	3.00
C	Water ²	Water	1.00
	Citric acid ⁴	Citric Acid	0.05

Procedure: Weight and mix phase A at 200 rpm. Weight phase B. Add phase B to phase A under slow stirring. Adjust the pH to 7.8 with phase C.

Suppliers: 1 Greentech 2 Oleon 3 Kuraray 4 Jungbunzlauer International AG



WATER SOLUBLE OILS, AN INNOVATIVE ALLIANCE



Face



Body



Hair

Thanks to biotechnology, all the properties of each vegetable oil, including softening and soothing, are combined with biological benefits of lysine and its micelles.

AQUASILOILS® improve formulations, reduce irritations (no PEG and low SLS) and environmental impact. Moisturizing, restorative, protective thanks to their base, they also form a micellar solution with cleansing and foaming properties.

AQUASILOILS® ARGAN, INCA INCHI®, SWEET ALMOND, APRICOT, CASTOR... and any plant give a global efficiency to the formulations. Powerful, simple, green.



ARGAN



INCA INCHI®



SWEET ALMOND



APRICOT



CASTOR



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