

ISSUE OCTOBER 2019

COSMETOPOLITAN



COS-INSIDE

Latest News
from RAHN

LAB-NEWS

Amilite G-Series

**AROUND
THE WORLD**

The CO₂ footprint

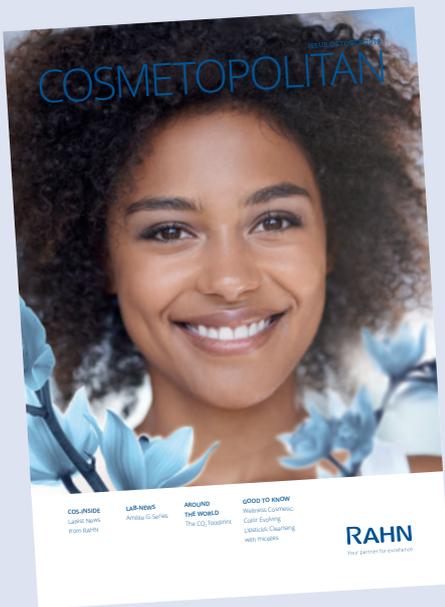
GOOD TO KNOW

Wellness Cosmetic;
Colour Evolving
Lipsticks; Cleansing
with micelles

RAHN

Your partner for excellence

Dear Readers,



Welcome to our new edition of Cosmopolitan.

Autumn – time to take it easy. Time to focus on yourself ... quite honestly, when did you last treat your skin to a face mask? Quite a while ago? Then it's about time you did something about it! Whatever your skin's special needs are, there is definitely a face mask to suit you for a fresh complexion during the ups and downs of autumn weather.

Bright eyes are particularly striking in dull weather. For a radiant look, choose an eye cream that enlivens the contours and visibly reduces swellings and signs of stress.

Life is colourful in autumn so liven up your everyday look, make-up and nails with the fantastic and varied autumn colours.

On that note, we do hope you all enjoy this beautiful time of the year.

Sandra

Sandra Gut
from your RAHN-Team

WHO IS NEW?



A very warm welcome to the new colleagues joining our team:



JULIO LAMBERTY
Function
Head of Sales Cosmetics
Division
RAHN USA Corp. Cosmetics
Joined
1st May 2019



ALEXANDRA HAUCK
Function
Technical Sales Manager Cosmetics
Division
RAHN AG
Joined
1st August 2019



SABINE DANKE
Function
Customer Service Cosmetics
Division
RAHN AG
Joined
1st June 2019



ALISSA FRONTAURIA
Function
Technical Sales Manager Cosmetics
Division
RAHN USA Corp. Cosmetics
Joined
15th September 2019



CARLA MORGADO
Function
Technical Sales Manager Cosmetics
Division
RAHN France Sarl Cosmetics
Joined
1st July 2019



MELISSA PADUA
Function
Technical Sales Manager Cosmetics
Division
RAHN USA Corp. Cosmetics
Joined
15th September 2019

We hope our colleagues will settle in quickly and look forward to developing a strong and productive working relationship.

RAHN Technology Seminar

Many thanks for attending our UK Technology Seminars in London and Manchester in such large numbers this year.

Both days were crammed with exciting, interactive topics on the theme of “simplicity meets efficacy”. This year, we had some fantastic contributions from RAHN Cosmetic Actives, Laboratoires Expanscience and Ajinomoto.

We are already looking forward to February 2020!

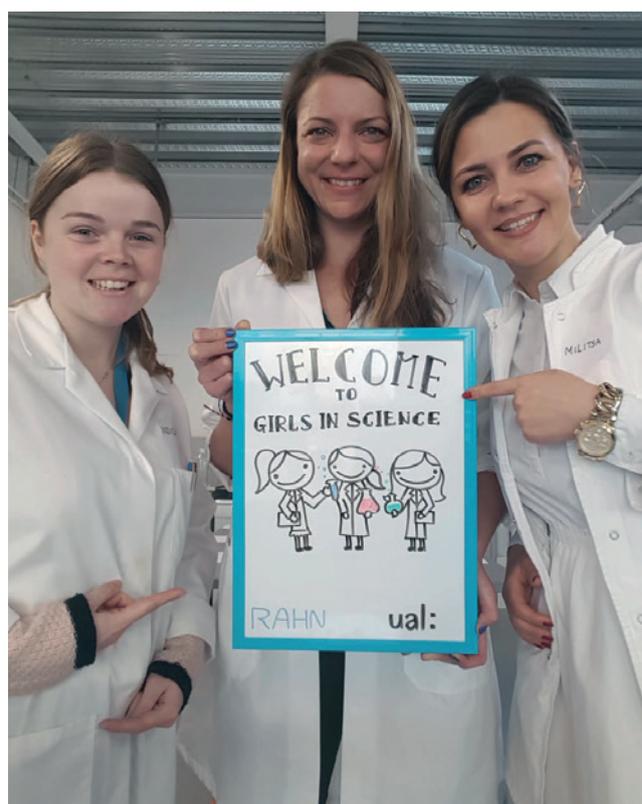


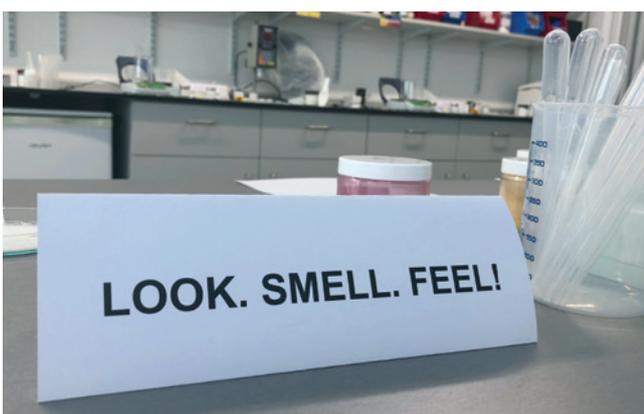
Who «RAHN's» the world? ... GIRLS!

We are delighted to report on our first "Girls in Science Day". This was organised in collaboration with the London College of Fashion and took place at RAHN UK Laboratory in East London on 25 and 26 April 2019. The aim of the two-day seminar was to introduce girls aged 13 to 16 to possible study and career prospects and also give them the chance to immerse themselves in the exciting world of science and technology and find out what it is like to be a research scientist for a day.

Twenty girls from Chessington School in Kingston upon Thames were chosen by their science teacher Samantha Lorence to attend this seminar. All the girls were enthusiastic make-up fans with a strong interest in science and chemistry.

Two interactive discovery zones were set up in the laboratory: "Smell. Touch .Feel" and "Formulating". In the "Smell. Touch. Feel" zone, the girls were able to find out about raw materials. Raw materials such as butters, oils, waxes, pigments, emulsifiers and perfume oils were available for them to "smell, touch and feel". Each raw material was accompanied by a brief descriptive summary including the chemical formula, its origin and function.





In the “Formulating” zone, teams of two prepared the FabuLips Sugar Lip Scrub on both days. This was a perfect warm-up exercise, allowing the girls to become familiar with laboratory equipment as well as a production process. The second project for the group of younger girls on Day 1 was to prepare a colour-changing lipstick. This is a lipstick containing a pH-sensitive active ingredient which causes the colour on the lips to change according to the wearer’s natural pH level. The group of older girls produced a solid fragrance stick on Day 2. They were able to personalise their sticks by choosing their own perfume oil which led to a great deal of excitement and focus when preparing the product.

Both days ended with a quiz to test the girls’ newly acquired knowledge and prizes were awarded accordingly. However, the highlight of the seminar and the best prizes were the products the girls made themselves which they proudly took home with smiles on their faces.

RAHN – Behind the scenes!

Not just any team ...

Who actually works in what department and what does the department do? Meet the team ...

DONATO SPEZZANEVE



Part of the team since?	September 2007
Responsible for?	Technical customer enquiries from German-speaking countries, technical documentation, country registrations, label certifications
How would you describe yourself in three words?	Consistent, honest, flexible
What are you passionate about?	Sport, AC Milan, cooking, spending time with my son
What do you like about RAHN?	Open communication, good working atmosphere, excellent social benefits

DETLEF SEIDEL



Part of the team since?	July 2015
Responsible for?	Chemical legislation (e.g. REACH Europe); transport of hazardous goods; regulatory customer enquiries (France, UK, Europe (not German-speaking countries); Emergency Response Officer
How would you describe yourself in three words?	Persistent, honest, reliable
What are you passionate about?	I like being out and about in the countryside (hiking, cycling) and enjoy playing music (electric bass guitar).
What do you like about RAHN?	That you are appreciated as a colleague, the flat hierarchies and the good working atmosphere

Amilite G-Series

The products of the Amilite G-Series are glycine surfactants. The main constituents of the products are amino acids and coconut fatty acids. You can produce creamy and elastic foam with Amilite. After cleansing, it leaves a fresh feeling on the skin without drying it out.

Typical benefits

- produces rich and creamy foam
- demonstrates a good lipid tolerance on formulation
- leaves your skin feeling deeply cleansed

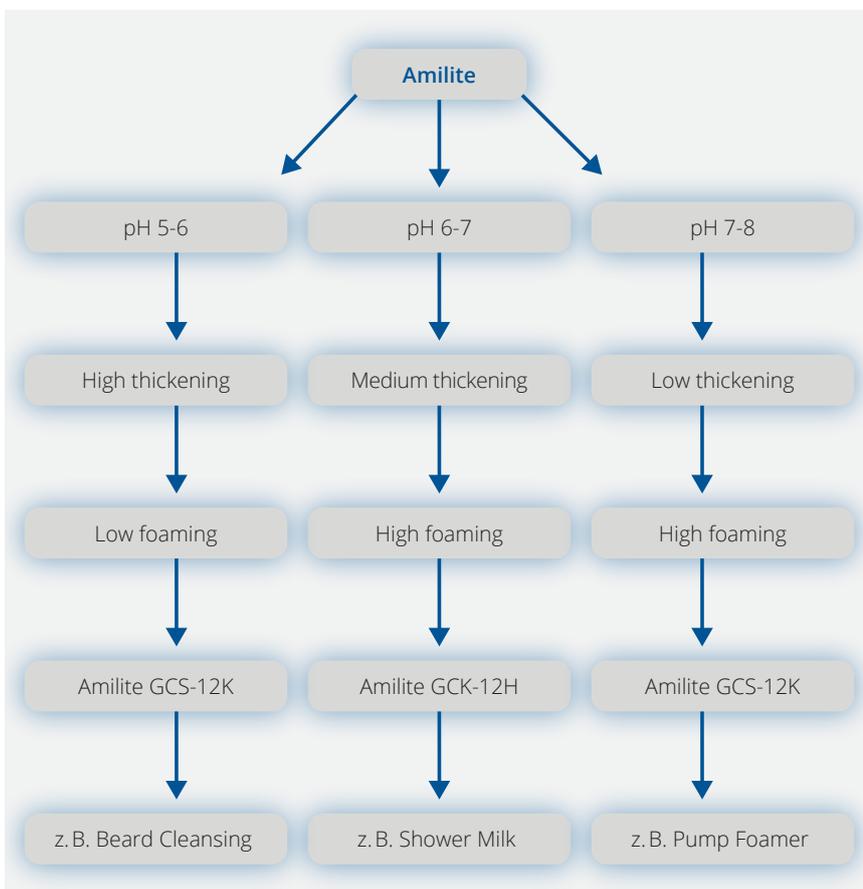
Application

- Amilite GCS-12K (*sodium cocoyl glycinate*): mainly used as a mild co-surfactant in detergents and cleaning agents for improved creaminess
- Amilite GCK-12H (*potassium cocoyl glycinate*): mainly used as a mild co-surfactant for clear facial and body cleansing products with a deep cleansing effect on the skin



In a nutshell ...

Amilite Quickfinder:



*Amilite GCS-12K meets RSPO Mass Balance quality

The main differences between sodium cocoyl glycinate (sodium salt) and potassium cocoyl glycinate (potassium salt) are:

Due to the relatively poor water solubility of sodium cocoyl glycinate (Amilite GCS-12K), a fall in the pH level triggers instant precipitation which leads to paste formation. At the same time, the foaming power declines as the pH level drops. However, good wetting occurs on water contact which allows cleansing with low foam volume. Products containing sodium salts are amazingly creamy and have a gentle and pleasant cleansing effect.

The potassium version (Amilite GCK-12H) on the other hand shows a significantly better solubility in water than the sodium salt and is therefore particularly suitable for transparent formulations in the pH range >6.5. In this pH range, you can achieve excellent foaming behaviour which is luxuriously creamy. The above-mentioned precipitation effect with citric acid for potassium salts can also be achieved in the acidic pH range but is much less pronounced.

DESIGNER STUBBLE WASH CREAM

pH-value 5.0–5.5

Appearance White, creamy wash paste

St	Substance	INCI name USA	% [w/w]	Manufacturer
1	Water demin.	Water	56.30	several
	Dermosoft MCA Variante	Dipropylene Glycol, Caprylyl Glycol, Glyceryl Caprylate	1.00	Evonik Industries AG, DE
2	Keltrol CG-SFT	Xanthan Gum	0.50	CP Kelco, US
3	Amilite GCS-12K	Sodium Cocoyl Glycinate, Water	35.00	Ajinomoto, JP
4	Amisoft CS-22	Sodium Cocoyl Glutamate, Disodium Cocoyl Glutamate, Water	3.00	Ajinomoto, JP
5	Sensual Flower	Fragrance	0.70	Aromatic Flavours & Fragrances Europe Ltd., GB
6	Sodium Chloride	Sodium Chloride	2.00	several
7	Citric Acid 100%	Citric Acid	2.00	several

FEEL GOOD SHOWER MILK

pH-value 7.0–7.5

Appearance White, creamy shower lotion

St	Substance	INCI name USA	% [w/w]	Manufacturer	
1	Water demin.	Water	35.20	several	
	Glycerin 85%	Glycerin, Water	3.00	several	
	Prodew 600	Betaine, Sodium PCA, Sodium Lactate, PCA, Serine, Alanine, Glycine, Glutamic Acid, Lysine HCL, Threonine, Arginine, Proline, Water	1.00	Ajinomoto, JP	
	AG014P Aloe Gel Dec 10x	Aloe Barbadensis Leaf Juice	1.00	Terry Laboratories, Inc., US	
	Amilite GCK-12H	Potassium Cocoyl Glycinate, Potassium Cocoate, Water	28.00	Ajinomoto, JP	
	Plantacare 818 UP	Coco Glucoside, Water	12.00	BASF, DE	
2	Genuvisco CG-131	Chondrus Crispus (Carrageenan)	0.80	CP Kelco, US	
	Keltrol CG-SFT	Xanthan Gum	0.30	CP Kelco, US	
	Sunflower Oil, organic	Helianthus Annuus (Sunflower) Seed Oil	8.00	All Organic Trading GmbH, DE	
	Coconut Oil refined, organic	Cocos Nucifera (Coconut) Oil	4.00	All Organic Trading GmbH, DE	
	Virgin Maracuja Oil	Passiflora Edulis Seed Oil	1.00	Laboratoires Expanscience, FR	
	Dermofeel Toco 70 non GMO	Tocopherol, Helianthus Annuus (Sunflower) Seed Oil	0.20	Evonik Industries AG, DE	
	Exotic Dream	Fragrance	1.00	Aromatic Flavours & Fragrances Europe Ltd., GB	
	Verstatil PC	Phenoxyethanol, Caprylyl Glycol	1.00	Evonik Industries AG, DE	
	3	Citric Acid solution 10%	Citric Acid, Water	3.50	several

Biodegradability of surfactants

What's behind it all?

In a nutshell ...

Surfactants are the main constituent of cleaning agents (shampoos, shower gels, soaps etc.). As these are toxic for aquatic organisms, it is absolutely essential that they are completely biodegradable. The dirt loosened by surfactants is discharged with the wastewater into the treatment plant where biodegradation of the surfactants takes place. In biodegradation, there is a distinction between primary degradation and full degradation (ultimate biodegradation).

Primary degradation is the first and crucial step. In this process, the surfactants used simultaneously lose both their characteristic dirt-loosening property and their harmfulness for aquatic organisms. Ultimate biodegradation of the surfactants occurs in several stages until only water, mineral salts and carbon dioxide remain. At the same time, the bacteria multiply in the treatment plants resulting in "biomass".

According to the Detergents Regulation (EC) no. 648 / 2004, surfactants must be broken down under laboratory conditions within a certain time. If surfactants pass this test, they are already half-way to degradation in the treatment plant within a few hours.

Biodegradability taking AMILITE GCK-12H as an example

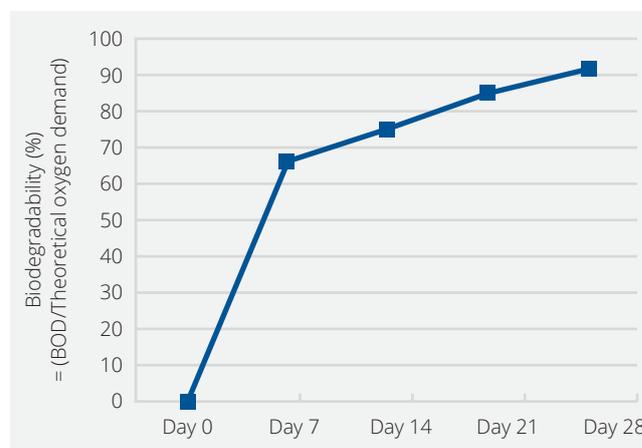
Method

OECD test methods are the generally recognised tests for biodegradability.

These are test methods that serve to identify and characterise the potential hazardous effects of chemicals.

READY BIODEGRADABILITY (OECD 301):

The tests in the OECD test series 301 (A-F) prove quick and full biodegradability. Ready biodegradability and a quick and relatively complete degradability of a test substance in an aquatic environment under aerobic conditions.



Result

AMILITE GCK-12H is a highly biodegradable surfactant.

The CO₂ footprint –

Novel approach for active ingredients to go „green“

Have you recently asked yourself where we are headed with the current climate changes? Our seas and water are getting more and more polluted, as is our air, which we desperately need for living. Forests and unspoilt nature are getting scarce, the global temperature is rising at a very fast rate. Our throwaway society lives like there is no tomorrow or like we have a Planet B as an alternative home. One of the primary causes of global warming is the increase of human-made CO₂ concentration in the atmosphere. Since the Industrial Revolution (over the last 150 years), its concentration has almost doubled. The modern world we live in brings not only comforts but also responsibilities of which we must be aware. It is important to know how much CO₂ we produce and how we can take action to reduce or offset emissions.

Taking action in one's own household needs a lot of rethinking, but it is manageable. Consciously cooking vegetarian meals 1–2 times per week with regional products, not using plastic bags and switching off the light when it is not needed is already a good start. This is a small but important step. Nevertheless, we need to think bigger! So the next question arising is: What can we do at our place of work? – or even better: What is the cosmetics industry's contribution to that problem?

We at RAHN have acknowledged our individual responsibility in the fight against climate change and undertaken first steps to help counter it. A transparent supply chain, the calculation of CO₂ produced throughout a product life cycle and the neutralisation of produced carbon dioxide is our contribution to the provision of genuinely „green“ raw materials.

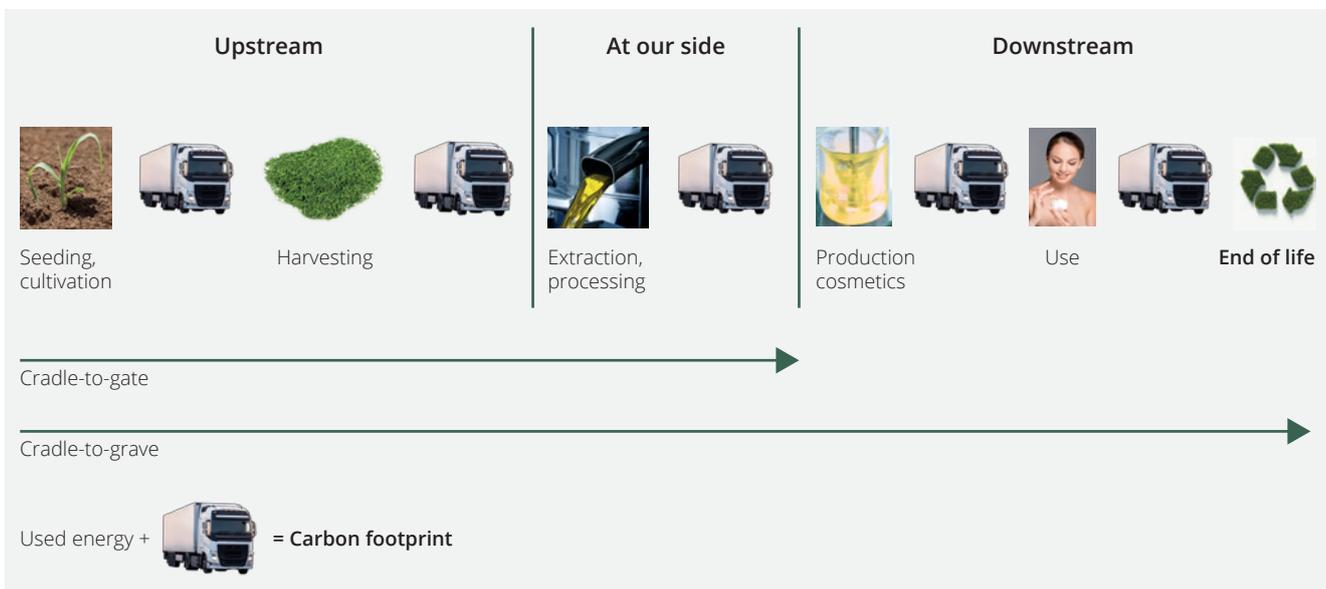


Figure 1: Schematic explanation of the «cradle-to-gate» and «cradle-to-grave» life cycle assessment approaches

Product life cycle assessment – CO₂ footprint calculation

In general, a product life cycle assessment is a standardised technique (ISO/TS 14067, GHG Protocol and PAS 2050) that can be used to systematically analyse a product's impact on nature and the environment. This can be measured in terms of the amount of greenhouse gases, especially CO₂, generated. The analysis is applied to all stages of a supply chain. Nevertheless, there are several ways of analysing a product's life cycle (Figure 1).

The most appropriate approach for assessing raw material suppliers is "cradle-to-gate" principle. In this case, the whole supply chain is analysed, from seeding and harvesting, through extraction and processing of the raw material to packaging, transportation and delivery to the warehouse. "Cradle-to-grave" is another method that in addition covers the cosmetic product manufacturing, distribution, use and disposal or recycling.

The downstream calculation of carbon emissions during the last three stages – production, use and disposal of the product – is the last step to make the cosmetics genuinely "green".

The calculation of CO₂ alone does not result automatically in climate neutrality. Businesses willing to apply the principle of climate neutrality must offset the amount of produced CO₂ by supporting an internationally recognised climate protection project.

CELLACTIVE® – RAHN's first carbon-neutral cosmetic active ingredient

In order to create a completely "green" active ingredient, RAHN has calculated carbon footprint for CELLACTIVE® throughout its product life cycle (Figure 2) and ultimately offset the CO₂ emissions through two forest protection projects, namely the "Stiftung Bergwaldprojekt" in Switzerland and the forest

protection project in April Salumei, Papua New Guinea. Both projects are dedicated to sustainable forest management. More important, through funding of the projects we also support the UN's Sustainable Development Goals.

Our new cosmetic active, CELLACTIVE®, combines the valuable ingredients of two "superfoods", the green alga *Chlorella vulgaris* and the protein rich *Lupinus albus*. *C. vulgaris* has many benefits

and its cultivation in photobioreactors is one of the most sustainable forms of production. The whole *L. albus* production chain has been optimised and the entire plant is used either for food, manure or cosmetics. It contributes to the sustainability of cropping systems and does not need additional water or fertilisers. It not only benefits the soil but also provides the basis for beautiful flowery meadows that serve as an important source of pollen for bees.



Figure 2: Schematic and simplified representation of CELLACTIVE®'s life cycle assessment. ID tracing number (ClimatePartner.com / 12934-1810-1001)

CELLACTIVE® promotes the integrity of the integumentary system at two levels: in the epidermis, it stimulates the production of adhesion proteins in order to improve cellular cohesion. Furthermore, it triggers the production of multiple extracellular matrix components in the dermis and helps skin to quickly regain its firmness and elasticity.

Hair also benefits from the use of CELLACTIVE®: it encourages the longevity of hair follicles thanks to invigorated cellular cohesion and improves hair quality parameters such as the anti-static effect and structure.



Scientifically confirmed effects for skin

- Increases viability of keratinocytes (*in-vitro* study)
- Improves cell cohesion (*in-vitro* study)
- Promotes ECM integrity (*in-vitro* study)
- Provides rapid effects with regard to skin elasticity and firmness (*in-vivo* study)

Scientifically confirmed effects for hair

- Increases viability of keratinocytes (*in-vitro* study)
- Improves cell cohesion (*in-vitro* study)
- Promotes ECM integrity (*in-vitro* study)
- Serves as a serum for hair follicles (*ex-vivo* study)
- Improves the quality of damaged hair (*ex-vivo* study)



Climate neutral
Product
ClimatePartner.com/12934-1810-1001



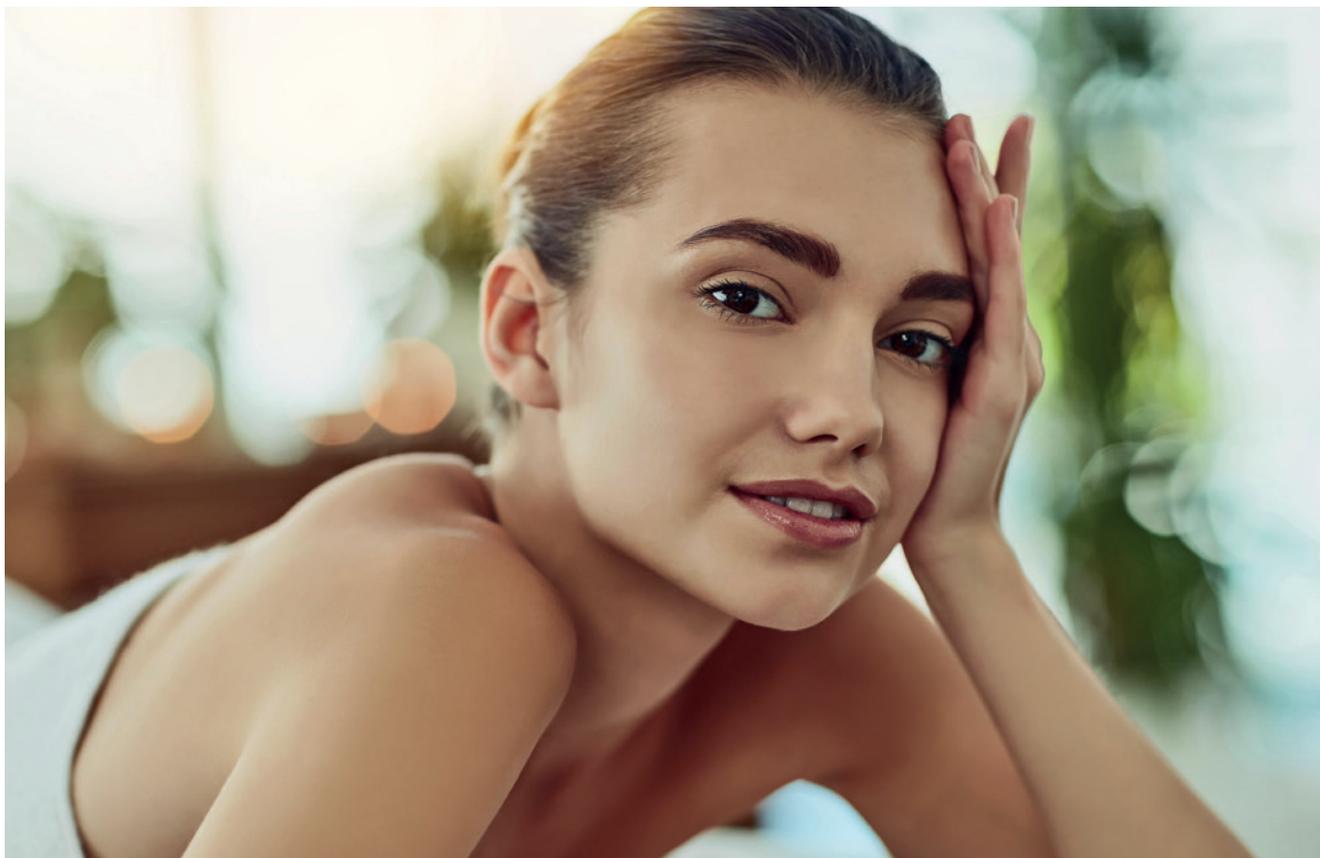
TOTAL WELLBEING – Wellness Cosmetic

Wellness and the desire to have a holistic, healthy and vital lifestyle is a growing trend among consumers around the world. As consumers, we are paying more and more attention to our environment and to our physical and mental well-being and expect holistic approaches to wellness.

A key driver of this wellness trend is stress. We live in an increasingly fast-paced world leaving us little time to “pamper ourselves”. What we do know is that stress can literally get under your skin and so have a dramatic impact on the quality and

appearance of the skin. One reason for this is a raised level of the stress hormone cortisol which can cause skin barrier function to deteriorate so that the skin becomes more susceptible to external sources of stress.

If you are under constant pressure, you should make sure for your own sake and the sake of your beauty that you get enough relaxation. Taking some time out goes a long way to restoring your serenity and improving your looks. Forget the stresses and strains of everyday life for a moment and recharge your batteries with our Global Wellness formulations.



Global Wellness Formulations:

Mediterranean Cream-To-Oil Massage

	Substance	INCI name	% [w/w]	Manufacturer
1	Glycerin	Glycerin	30.20	several
	Sisterna SP70-C	Sucrose Stearate	2.50	Sisterna B.V.
	Cosme-Phytami Porphyra TH	Glycerin, Porphyra Umbilicalis Extract	1.00	Alban Muller
	Deionised Water	Aqua	10.00	several
2	Gilsolide HV	Hydrogenated Rapeseed Alcohol, Polyglyceryl-4 Oleate, Glyceryl Oliviate	53.30	Gilas
	Olive Squalene	Squalene	2.60	EFP Biotek
	Dermofeel Toco 70 non GMO	Tocopherol; Helianthus Annuus (Sunflower) Seed Oil	0.10	Evonik Industries AG, DE
3	Olivera (503430)	Parfum	0.30	Luzi

This creamy gel-to-milk massage product contains a natural silicon substitute component based on olive oil, algae extract and our Sisterna SP70-C with mild, skin-smoothing and moisturising properties. A real treat for your skin!

Thai Wellness Body Butter

	Substance	INCI name	% [w/w]	Manufacturer
1	Deionised Water	Aqua	46.85	several
	Glycerin	Glycerin	2.50	several
	Keltrol CG-SFT	Xanthan Gum	0.30	CP Kelco
	Amigel	Sclerotium Gum	0.50	Alban Muller
	Fruitliquid Pineapple PB	Glycerin, Aqua, Ananas Sativus Fruit Extract	1.00	Crodarom
2	Sisterna SP70-C	Sucrose Stearate	2.00	Sisterna B.V.
	Sisterna SP30-C	Sucrose Distearate	2.00	Sisterna B.V.
	Jasmine Butter	Prunus Amygdalus Dulcis (Sweet Almond) Oil, Hydrogenated Vegetable Oil, Jasminum Officinale Oil	9.00	EFP Biotek
	Lime Butter	Citrus Aurantifolia (Lime) Seed Oil, Hydrogenated Vegetable Oil	9.00	EFP Biotek
	Coconut Oil	Cocos Nucifera (Coconut) Oil	6.00	several
	Caprylic / Capric Triglyceride	Caprylic / Capric Triglyceride	6.00	several
	Rice Serum	Oryza Sativa (Rice) Bran Oil, Phytosterols, Olea Europaea (Olive) Oil Unsaponifiables, Tocopherol	7.50	EFP Biotek
	Cetearyl Alcohol	Cetearyl Alcohol	3.00	several
	Dermofeel Toco 70 non GMO	Tocopherol; Helianthus Annuus (Sunflower) Seed Oil	0.05	Evonik Industries AG, DE
	VP 67	Ricinus Communis (Castor) Seed Oil, Hydrogenated Castor Oil, Copernicia Cerifera (Carnauba) Wax	2.00	EFP Biotek
3	Euxyl K 830	Phenoxyethanol, Ethylhexylglycerin, Octenidine HCl	1.00	Schülke
	Malaysian Longan (353128)	Parfum	0.30	Luzi
4	Citric Acid (20% Aq. Sol.)	Citric Acid, Aqua	q.s.	several

Thai Wellness Body Butter for a perfect finish to your wellness day. The Body Butter contains lime and jasmine butter as care components. The rice bran oil provides moisture and Sisterna SP70-C and SP30-C add the perfect finishing touches for a healthy feel to the skin. Everything you could hope for after a day of complete relaxation.

Yoga for the Skin

	Substance	INCI name USA	% [w/w]	Manufacturer
1	Water demin.	Water	61.75	several
	Glycerin 85 %	Glycerin, Water	3.00	several
	Dermosoft 700 B	Levulinic acid, Sodium Levulinate, Glycerin, Water	0.30	Evonik Industries AG, DE
	Dermosoft GMCY	Glyceryl Caprylate	0.50	Evonik Industries AG, DE
2	Sisterna SP30-C	Sucrose Distearate	2.00	Sisterna B.V., NL
	Sisterna SP70-C	Sucrose Stearate	2.00	Sisterna B.V., NL
	Keltrol Advanced Performance	Xanthan Gum	0.25	CP Kelco, US
	Cupuacu Butter Refined	Theobroma Grandiflorum Seed Butter	3.00	Laboratoires Expanscience, FR
	Imulsi-Fi	Citrus Aurantium Sinensis Fiber	3.00	Fiberstar Sales, US
	Dermofeel Sensolv	Isoamyl Laurate	9.00	Evonik Industries AG, DE
	Brazil Nut Oil refined Organic	Bertholletia excelsa seed oil; Tocopherol	6.00	Evonik Industries AG, DE
	Ylang Ylang Essential Wax	Cananga Odorata Flower Extract	1.00	Bertin, FR
	Dermofeel Toco 70 non-GMO	Tocopherol, Helianthus Annuus (Sunflower) Seed Oil	0.20	Evonik Industries AG, DE
	3	L-Arginine solution 10 %	Water, Arginine	1.50
4	MYRAMAZE®	Propanediol, Water, Myrothamnus Flabellifolia Leaf / Stem Extract, Ascorbic Acid, Citric Acid	2.00	RAHN AG, CH
	Synastol TC	Terminalia Chebula Fruit Extract	1.00	Sytheon Ltd, US
5	Ethanol 94 % denat.	Alcohol denat., Water	3.00	several
	Drift Away	Fragrance	0.50	Aromatic Flavours & Fragrances Europe Ltd., GB

Terminalia Chebula is a well-known and very traditional plant in Ayurveda medicine. This plant is known for its life-giving, nourishing and body-energising effects and it is used to restore the body's natural balance.

Hamam Argan Oil-Gel

	Substance	INCI name	% [w/w]	Manufacturer
1	Glycerin	Glycerin	53.42	several
	Sisterna PS750-C	Sucrose Palmitate	2.00	Sisterna B.V.
2	Argan Oil	Argania Spinosa Kernel Oil	19.00	several
	Caprylic / Capric Triglyceride	Caprylic / Capric Triglyceride	19.00	several
	Dermofeel Toco Skin	Tocopherol; Helianthus Annuus (Sunflower) Seed Oil	1.00	Evonik Industries AG, DE
3	Imperial Oud (260648-E)	Parfum	0.30	Luzi
4	Deionised Water	Aqua	5.28	several

There is nothing better than relaxing in a hammam and cleansing your body with a relaxing and nurturing Moroccan Argan Oil gel-to-milk concept with an amazing oud scent. For a unique hammam experience!

Brazilian Conditioning Oil-Gel Treatment

	Substance	INCI name	% [w/w]	Manufacturer
1	Glycerin	Glycerin	54.80	several
	Sisterna SP70-C	Sucrose Stearate	1.00	Sisterna B.V.
	Sisterna L70-C	Aqua, Sucrose Laurate, Alcohol	2.50	Sisterna B.V.
2	Andiroba Oil	Carapa Guaianensis Seed Oil	20.00	Laboratoires Expanscience
	Maracuja Oil	Passiflora Edulis Seed Oil	20.00	Laboratoires Expanscience
	Dermofeel Toco 70 non GMO	Tocopherol; Helianthus Annuus (Sunflower) Seed Oil	0.10	Evonik Industries AG, DE
	Amazonia (461103)	Parfum	0.80	Luzi
	3	Quatin 350 UP	Hydroxypropyltrimonium Inulin	0.80

Andiroba and Maracuja oil bring nourishing and skin-caring qualities to this Brazilian hair-care concept. A care additive for strong and healthy hair.



Colour-evolving lipsticks

Colour-up & replenish your lips



Our colour-evolving lipstick collection – inspired by fresh, ripe summer fruit. Available in four colours and four fruity flavours.

The lipsticks give your lips a delicate shade of pink. They also have a smoothing and moisturising effect. So you can say good-bye to cracked lips.

The product is easy to apply and can be used on its own or as a lipstick base. It forms a thin film on your lips and therefore provides an ideal smooth and even surface, an excellent basis for your lipstick. Your lipstick then lasts longer and doesn't smear.

Why not try it! We would be happy to send you a set of samples.

If you have any further questions, please write to sandra.gut@rahn-group.com.

Our lipsticks at a glance:



Blueberry Bliss contains our Hydrasynol DOI (INCI: *isosorbide dicaprylate*). An intelligent lipophilic moisturiser which also strengthens the skin barrier and increases the shine effect.



Strawberry Fields helps restore chapped, sensitive lips. DEFENSIL®-PLUS regenerates irritated and stressed skin.



Pineapple Pop with sun-yellow Virgin Maracuja Oil. It repairs, regenerates and soothes weakened and damaged skin!



Green Apple contains Aloe Vera Oil extract. This improves skin regeneration, stimulates cell renewal and moisturises.

All four lipsticks are supported by the ingredient Eldew PS-203R – a ceramide-like, natural emollient providing effective repair.

Blueberry Bliss Colour Evolving Lipstick

	Substance	INCI name USA	% [w/w]	Manufacturer
1	EB-21	Dibutyl Ethylhexanoyl Glutamide	2.00	Ajinomoto, JP
	GP-1	Dibutyl Lauroyl Glutamide	3.00	Ajinomoto, JP
	Eutanol G	Octyldodecanol	15.00	BASF, DE
2	Panalane L-14E	Hydrogenated Polyisobutene	15.00	Vantage Personal Care, US
	Red 27 (CI45410)	Red 27	0.20	several
	Eldew PS-203 R	Phytosteryl/Octyldodecyl Lauroyl Glutamate	5.00	Ajinomoto, JP
	Citric Acid 100 %	Citric Acid	0.10	several
	HydraSynol DOI	Isosorbide Dicaprylate	2.00	Sytheon Ltd, US
	Panalane H-300E	Hydrogenated Polyisobutene	41.80	Vantage Personal Care, US
3	Blueberry & Smoothie (PN785490)	Fragrance	2.50	Aromatic Flavours & Fragrances Europe Ltd., GB
	Ultramarine Blue (CI77007)	Ultramarines	0.10	several
	Eldew SL-205	Isopropyl Lauroyl Sarcosinate	13.30	Ajinomoto, JP

Strawberry Fields Colour Evolving Lipstick

	Substance	INCI name USA	% [w/w]	Manufacturer
1	EB-21	Dibutyl Ethylhexanoyl Glutamide	2.00	Ajinomoto, JP
	GP-1	Dibutyl Lauroyl Glutamide	3.00	Ajinomoto, JP
	Eutanol G	Octyldodecanol	15.00	BASF, DE
2	Panalane L-14E	Hydrogenated Polyisobutene	15.00	Vantage Personal Care, US
	Red 27 (CI45410)	Red 27	0.20	several
	Eldew PS-203 R	Phytosteryl/Octyldodecyl Lauroyl Glutamate	5.00	Ajinomoto, JP
	Citric Acid 100 %	Citric Acid	0.10	several
	DEFENSIL®-PLUS	Octyldodecanol, Ribes Nigrum (Black Currant) Seed Oil, Helianthus Annuus (Sunflower) Seed Oil Unsaponifiables, Cardiospermum Halicacabum Flower/Leaf/Vine Extract, Tocopherol, Helianthus Annuus (Sunflower) Seed Oil, Rosmarinus Officinalis (Rosemary) Leaf Extract	2.00	RAHN AG, CH
	Panalane H-300E	Hydrogenated Polyisobutene	41.75	Vantage Personal Care, US
3	Strawberry (PN793763)	Fragrance	2.50	Aromatic Flavours & Fragrances Europe Ltd., GB
	Unipure Red LC 381 (CI77491)	Iron Oxides	0.05	Sensient Cosmetic Technologies, FR
	Eldew SL-205	Isopropyl Lauroyl Sarcosinate	13.40	Ajinomoto, JP

Pineapple Pop Colour Evolving Lipstick

	Substance	INCI name USA	% [w/w]	Manufacturer
1	EB-21	Dibutyl Ethylhexanoyl Glutamide	2.00	Ajinomoto, JP
	GP-1	Dibutyl Lauroyl Glutamide	3.00	Ajinomoto, JP
	Eutanol G	Octyldodecanol	15.00	BASF, DE
2	Panalane L-14E	Hydrogenated Polyisobutene	15.00	Vantage Personal Care, US
	Red 27 (CI45410)	Red 27	0.20	several
	Eldew PS-203 R	Phytosteryl/Octyldodecyl Lauroyl Glutamate	5.00	Ajinomoto, JP
	Citric Acid 100%	Citric Acid	0.25	several
	Virgin Maracuja Oil	Passiflora Edulis Seed Oil	2.00	Laboratoires Expanscience, FR
	Panalane H-300E	Hydrogenated Polyisobutene	40.13	Vantage Personal Care, US
3	Pineapple	Fragrance	4.00	Mystic Moments, UK
	Unipure Yellow LC 182 (CI77492)	Iron Oxides	0.03	Sensient Cosmetic Technologies, FR
	Eldew SL-205	Isopropyl Lauroyl Sarcosinate	13.40	Ajinomoto, JP

Green Apple Colour Evolving Lipstick

	Substance	INCI name USA	% [w/w]	Manufacturer
1	EB-21	Dibutyl Ethylhexanoyl Glutamide	2.00	Ajinomoto, JP
	GP-1	Dibutyl Lauroyl Glutamide	3.00	Ajinomoto, JP
	Eutanol G	Octyldodecanol	15.00	BASF, DE
2	Panalane L-14E	Hydrogenated Polyisobutene	15.00	Vantage Personal Care, US
	Red 27 (CI45410)	Red 27	0.20	several
	Eldew PS-203 R	Phytosteryl/Octyldodecyl Lauroyl Glutamate	5.00	Ajinomoto, JP
	Citric Acid 100%	Citric Acid	0.10	several
	AO002 Aloe Vera Oil Extract	Glycine Soja (Soybean) Oil, Aloe Barbadensis Leaf Extract	2.00	Terry Laboratories, Inc., US
	Panalane H-300E	Hydrogenated Polyisobutene	40.10	Vantage Personal Care, US
3	Green Apple	Fragrance	4.00	Mystic Moments, UK
	Chromium Green Oxide (CI77288)	Chromium Oxide Greens	0.20	several
	Eldew SL-205	Isopropyl Lauroyl Sarcosinate	13.40	Ajinomoto, JP

Cleansing with micelles – short and sweet



Micellar water has been designed to cleanse the skin by removing make-up, sebum and dirt.

WHAT ACTUALLY ARE MICELLES?

Micelles (Lat. *mica* = crumb) are tiny molecules that have hydrophilic and hydrophobic parts. They basically belong quite unspectacularly to the group of surfactants.

It is essential to include a certain proportion of surface-active substances (surfactants) in a micellar water. If there is a concentration under the CMC (*Critical Micelle Concentration*), these molecules are freely and separately suspended in the surrounding medium or they position themselves at the free surface. If the concentration level of a surfactant reaches/exceeds its CMC, the surfactant molecules form so-called micelles. If the concentration rises still further, the number of micelles formed also increases.

WIPE AND READY TO GO

As the micellar water concept does not envisage any rinsing off after application, it is important to produce a formula that is as mild and skin-friendly as possible. The choice of surfactants is the key to an effective product.

The application is quite simple: Put some of the solution on a cotton wool pad and wipe gently over the face and if necessary the eyes. Ready to go!

MILD MICELLAR WATER WITH AMISOFT CS-22

Our Amisoft CS-22 is ideal for this application thanks to its mildness. The CMC for Amisoft CS-22 is around 0.88%. That means any amount above 1% can be designated a micellar solution.

However, as other materials in the formulation are normally able to absorb some of these surfactant molecules, a CMC of at least 2% is recommended for micellar water formulations.

We would be happy to help you if you have any further questions on this subject!

The Encyclopaedia of Cosmetics

for...

...Lactate

...Langerhans cells

...Lanolin

...Lentigines

...Linoleic acid

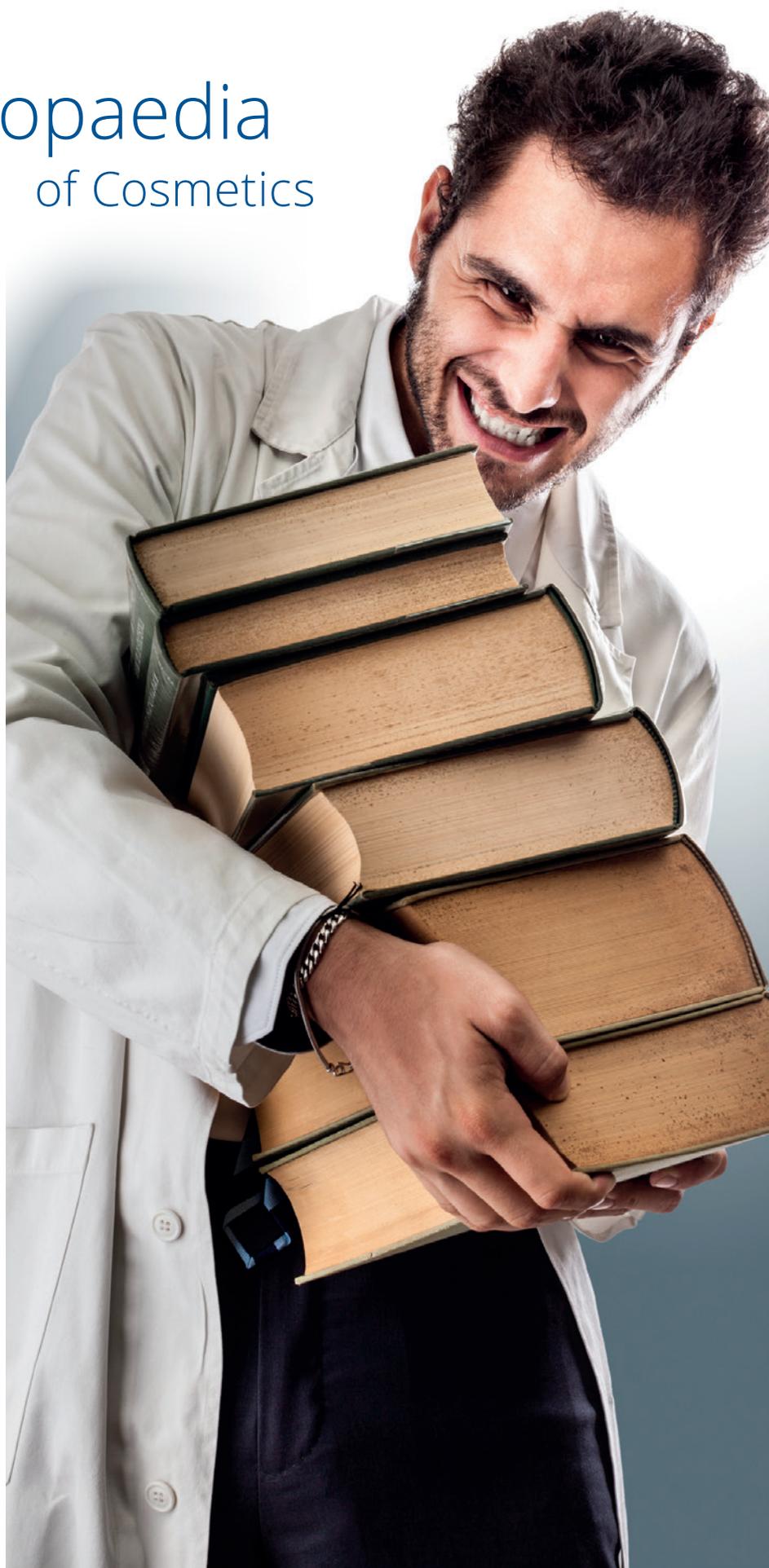
...Lipase

...Lipophilic

...Lipophobic

...Liposomes

...Long-lasting



Lactate

= Salts of lactic acid and part of the NMF (Natural Moisturizing Factors).

Langerhans cells

Cells in the epidermis (stratum spinosum) that act as defence cells and are involved in sensitisation processes such as allergisation.

Lanolin

This is also known as wool wax and is a wax secreted by the sebaceous glands of sheep and extracted by washing sheep's wool.

Lentigines

Known also as sun spots. Those freckles do not fade in winter and form after years of exposure to the sun.

Linoleic acid

Linoleic acid is an unsaturated fatty acid that is naturally present in various vegetable oils. It belongs to the family of omega-6 fatty acids. Linoleic acid reduces the transepidermal water loss and regulates the function of the sebaceous glands.

Lipase

An enzyme that breaks down lipids. Mostly we talk about triglycerides lipase which is the enzyme in slimming products that helps eliminate fat by splitting the triglycerides into free fatty acids and glycerin.

Lipophilic

from Greek philos = friend. Fat-friendly. Lipophilic substances are substances that easily dissolve in fats or lipids.

Lipophobic

from Greek phobos = fear. Adverse to fat. Lipophobic substances are fat-repellent and do not dissolve in fats or oils.

Liposomes

Liposomes are microscopically small hollow spheres. Liposomes are also known as vesicles which comes from the Latin vesicula meaning a small blister. They are formed by the fine distribution of phospholipids such as lecithin in aqueous medium and under certain conditions.

Long-lasting

The expression is mostly used in the context of lip care and make-up products.



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