

ISSUE APRIL 2021

COSMETOPOLITAN



COS-INSIDE

Latest News
from RAHN

LAB-NEWS

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Men - Things you
should know ...

AROUND THE WORLD

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RAHN-Cosmetic
Actives
Development

GOOD TO KNOW

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Clear Cosmetic
Clutter

RAHN

Your partner for excellence

Dear Readers,



Welcome to our new edition of Cosmopolitan.

It's Springtime! Did you know April is named after the Latin word "aperire"? It means "to open" – just like flowers do in spring.

I have a question for you ... When was the last time you did something for the first time? For the most of us it's been probably a while due to multiple months of lockdown life. Nevertheless, let's stay curious and open. Let's create some newness for ourselves ... It doesn't have to be a big thing; the little things often make the biggest impact.

Enjoy!
Yours,

Sandra

Sandra Gut
from your RAHN-Team

WHO IS NEW?



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



LEA GREGORI
Function
Technical Sales Manager
Division
RAHN GmbH
Joined
1st February 2021



LOYA SCHÖFFEL
Function
R&D Lab Manager Cosmetic Actives
Division
RAHN AG
Joined
1st April 2021

Welcome aboard! Excited to have you on our team. We look forward to working with you.

RAHN – Behind the scenes!

Not just any team ...

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

SYLVIE BADUEL



Part of the team since?	15 th April 2013
Responsible for?	Sales Director RAHN France
How would you describe yourself in three words?	Direct, joyful-positive, reliable
What are you passionate about?	Family & friends, apéro time, sea & sun, laughing, dancing, discovering new places, people, stories, art ...
What do you like about RAHN?	To be part of a nice family, respect, listening, consideration and exchange, reliability, long-term goals



STEFAN HETTWER

Part of the team since?	1 st January 2015
Responsible for?	Senior R&D Manager Cosmetic Actives This means that I am involved in the “birth” of a new active ingredient right from the start. I evaluate plants for possible efficacy and I do support the development of the extract. I also assess the safety and effectiveness of new RAHN-Cosmetic Actives in studies and represent the results in an understandable way for our customers.
How would you describe yourself in three words?	Curious, constructive, pragmatic
What are you passionate about?	Science, garden, plants, nature and DIY
What do you like about RAHN?	RAHN gives me freedom to develop as a scientist and to transfer ideas into projects. Working in a team is inspiring and interacting with sales and customers is fulfilling. The good working atmosphere contributes significantly to the successful development of new active ingredients.



JASMIN SCHAAD

Part of the team since?	1 st October 2018
Responsible for?	As a Product Manager Cosmetics, my main activity is communicating, informing and coordinating – this includes a wide range of tasks. On the one hand, I look after our trading goods suppliers and I am therefore a link between RAHN and our partners. On the other hand, I take care of internal adjustments and changes in regards to our trading goods portfolio and I am therefore in contact with many different departments within RAHN.
How would you describe yourself in three words?	Joyful, energetic, creative
What are you passionate about?	Always up for an adventure or a yoga session ... I really enjoy being out in nature, whether it's walking in the forest or hiking in the mountains. I am passionate about good food and wine. I like to cook and I love to try new dishes.
What do you like about RAHN?	The trust that RAHN has in its employees. I appreciate a lot the independence at work. I also like the pleasant and familiar working atmosphere and the high level of appreciation for being part of the RAHN-team.



RENÉ GULDIMANN

Part of the team since?	1995
Responsible for?	Member of the executive board with responsibility for the COSMETICS division. Management of the cosmetics management team and the sales team in the US.
How would you describe yourself in three words?	Balanced, discreet, inconspicuous
What are you passionate about?	<ul style="list-style-type: none"> · Family and home · Tennis (passive, but with passion) · Now and then a good glass of wine or an action movie
What do you like about RAHN?	<ul style="list-style-type: none"> · The employees, the teams · Interesting setting (commercial products and own developments) in exciting markets (Cosmetics and Energy Curing) · Independence (financial and organizational) · Not too small and not too big · Loyal employer with a social spirit

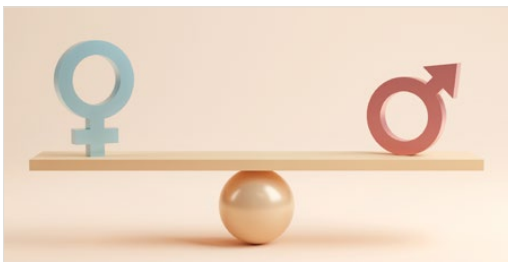
Every day is International Women's Day ...

Every day we should all be aware of our commitment to gender equality. And every day we should celebrate the achievements of women. Women bring creativity and critical services to all levels of society, from the home to the office, laboratory, and boardroom. Yet their achievements and contributions often go over-

looked, unacknowledged, or even minimized. This is a reminder to celebrate all those amazing women out there, especially those who are typically forgotten or pushed to the side.

We at RAHN are proud of the values we stand for and to have so many amazing, strong, and individual personalities on board.

Let's celebrate everyday **Worth, Outstanding Performance, Equality, Ambition and Happiness as Women, as Mothers, as Nerds, as Colleagues, ...**



WORTH is genderless



OUTSTANDING Performance

Once you realise how strong you are –
you are unstoppable

Sandra, Technical Sales & Laboratory Manager Cosmetics



Mother

Women, the backbone of the so
Having a **family** is a **full time j**
Being a mother is 24/7 job!
Mom, Grand-ma, Sister, Da
the **super women** of our world

ROCKING with excellence
on every stage

Head of Marketing,
Mother of two kids,
passionate & creative **baker**

Daniela, Head of Marketing Cosmetics



Ambitious woman

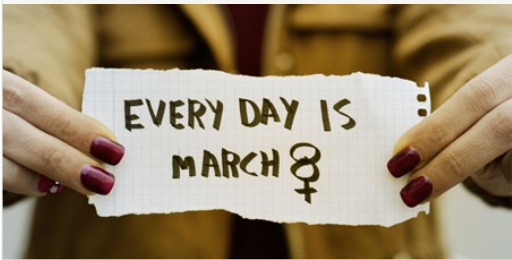
A **lifelong learner** and **seeker of change**
and knowledge **bringing improvement** around her –
to herself, her family, her friends and her colleagues

*Ana Patricia, Majority Shareholder of RAHN AG,
President Rahn Kulturfonds Association*



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EQUALITY – the time is now



NOBBY NERD ALERT –
Science, style and social skills –
Your only limit is you!!

Emina, Senior R&D Manager Hair Care Cosmetic Actives



HAPPY International Women's
day and do not forget ...

NOTHING should stop you



of being **yourself**, saying what **you think**, wearing
what **you want** and standing up for **your rights**.

WWW ...

Come closer ... Come on in ...

Either you are a regular visitor to our website or you are new ... Either way – Welcome! We are inviting you to get your personal access to our website.

What advantages can you find within our login section?

- Get access to our recorded webinars
- Downloadable product overviews of our raw materials
- Request your RAHN Cosmetics Actives sample online
- Downloadable documentation of our RAHN Cosmetics Actives
- Downloadable trends reports

Don't worry, it's easy! Simply fill in the form and we'll set you up.



Searching for inspiration or a quick solution?

Take a look at our website. You'll find all our guide formulations in the section "Services".

The site has an integrated search function which allows you to search specifically according to category, type and claim, or you can simply enter free text. Our formulations serve as a starting point and provide information on the dosage of individual ingredients and production of the product. All of our formulations are also examined for their stability and generally contain selected active ingredients which permit targeted product claims. New creations are continuously being added to the range of guide formulations, inspiring new ideas with regard to the formulation itself and also from a marketing perspective.



Hair Loss in Men.

Things you should know ...

Hair loss is a typical male condition and is a big issue for many, but one that is rarely talked about.

Symptoms of hair loss vary widely and may include:

- Temple hair loss
- Less hair growing back and the hair generally becoming thinner
- Decreasing hair volume
- Receding hairline
- Bald patches on the back of the head

Reasons for hair loss

Half of men over the age of 20 expect to suffer hair loss. Losing up to 100 hairs a day is no reason to panic but quite normal. Only when this amount is significantly exceeded over a longer period, do doctors speak of pathological hair loss.





1 Hereditary hair loss

The most common cause is hereditary hair loss. About 80 % of men who lose their hair prematurely suffer from this form. This type is also known as male-pattern hair loss. Testosterone is converted into dihydrotestosterone (DHT) by the enzyme 5-alpha reductase. Many hair follicles react sensitively to DHT and atrophy. The hairs in question become shorter and thinner until they disappear completely. The first signs are often seen in the mid-20s with hair loss at the temples. As time goes by, this may eventually result in full baldness.

2 Stress-related hair loss

Stress can trigger hair loss and its impact should not be underestimated. Besides excessive exercise, lack of sleep and other physical stress factors, psychological problems can also be reasons for hair loss. The longer the stress lasts, the more the hair suffers. The hair needs a sufficient supply of energy for healthy growth. If the body uses energy elsewhere in stressful situations, there is not enough left to nourish the hair.

3 Spot baldness

Spot baldness is a form of hair loss. This is believed to be triggered by an autoimmune disease. Spot baldness therefore occurs relatively rarely and is characterised by the typical round bald patches on the head and also on other parts of the body. Often the bald patches disappear after a while, but can reappear later.

4 Diffuse hair loss

This is characterised by the fact that the hair becomes altogether lighter. The reasons for diffuse hair loss can vary and range from an unhealthy lifestyle to an illness, from medication to stress. The hair roots do not receive the necessary nutrients they need for growth and the hair falls out.





The fact is that no remedy can produce fresh follicles! What's gone is gone. However, if there are plenty of follicles left, you can still increase your hair growth.

Don't despair – there's no need to pull out what hair you have left! We have put together a selection of active ingredients for you:

Ajidew ZN-100

= is the Zinc salt of L-Pyrrolidone Carboxylate (Zinc PCA).
PCA is a Natural Moisturizing Factor (NMF).

Ajidew NL-50

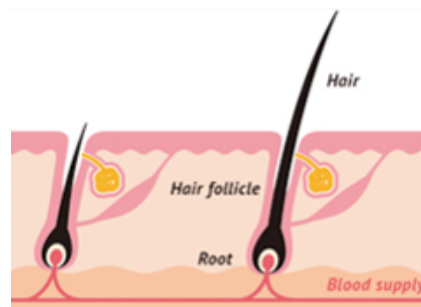
= is a humectant made up of PCA, a Natural Moisturizing Factor (NMF).

Both are amino acid-based materials (Glutamic acid) and show good adhesion to hair. Both PCA's are recommended for hair growth products. They are known to increase blood flow and therefore stimulate microcirculation. Poor circulation to the scalp means the hair bulb does not receive the nutrients it needs and results in hair loss.

Skinhairgium®Bio

= Hydrolysate of Maca with the INCI *Lepidium Meyenii* Root Extract and Maltodextrin.

SKINHAIRGIUM®Bio is boosting hair growth and acts simultaneously on the biological markers involved in hair growth and hair loss for stronger, healthier growing hair. It also protects the hair follicle from oxidative stress, thus preventing premature hair loss.



Check me out ...

Homage to RAHN-Cosmetic Actives Development

Where it all began ...

Everything started in autumn 1997 (Figure 1). Some unexpected coincidences forced RAHN to evaluate the possibility of development of own cosmetic actives. Within less than two years (June 1999) HYDRACTIN® and PERFELINE® were planned, developed and launched. Here begun the rise of RAHN-Cosmetic Actives (RCA). Already in the RCA cradle RAHN anchored impor-

tant characteristics in its DNA. The ingredients have to be PEG-free and have a plant-based concept with gentle preservation. Information on registration and origin of substances needs to be available. The effectiveness must be tested and comprehensively and clearly documented, extensive toxicological package without animal testing has to be delivered. The developments got better from year to year and more actives have been developed and successfully distributed around the globe.



Figure 1: Innovation meeting, autumn 1997. Market clarification and concept development by project team. From left to right: Roman Ott, René Guldimann and André Rohner.

Where are we today?

The cosmetic evolution is fast moving, dynamic and unstoppable (Figure 2). New products, in response to new consumer needs, are constantly created and introduced to an expanding market. Those products are getting more sophisticated, targeted and sometimes overlap with drug or drug-like products. Therefore, it is not surprising that such developments create a substantial need for new and stronger regulations such as safety testing, risk and toxicological assessments. The most

important driver here is the consumer. With access to more information than ever before and their newly gained consciousness of sustainability the cosmetics industry is forced to deliver evidence-based efficacy, conscious sourcing, eco-friendly and fair manufacturing. Brands today need to be actively part of the ECO-lution. RAHN has always adapted to those changes (Figure 2) whilst remaining at the fore front as a visionary. Therefore, we have created our “rose of the winds”, which gives the insight in our way of creating cosmetic active ingredients (Figure 3).

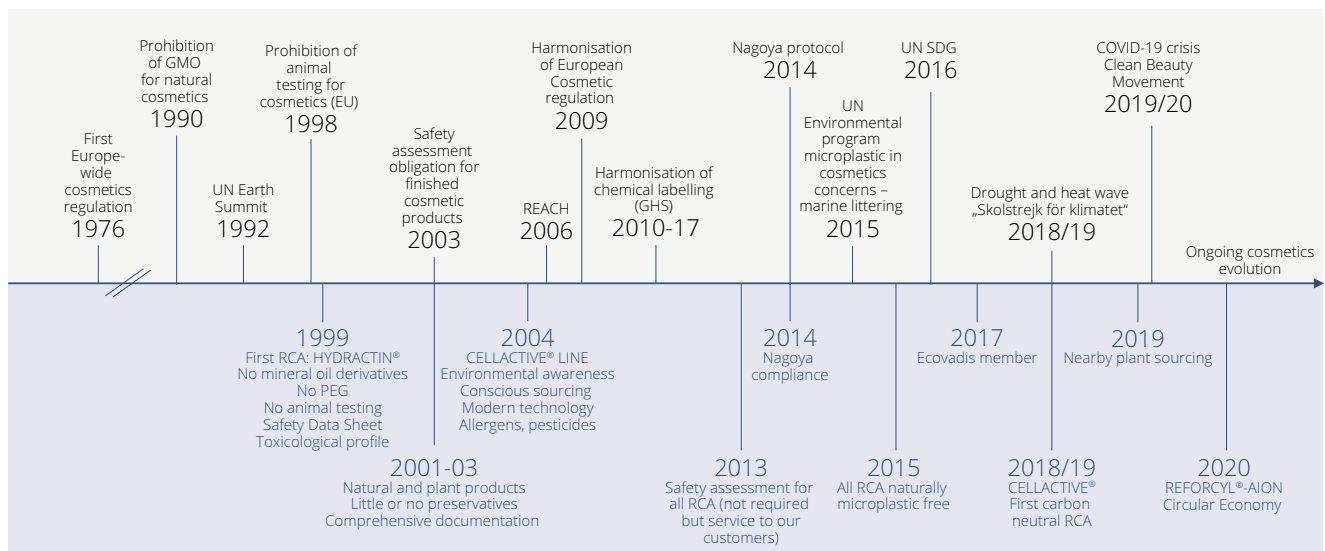


Figure 2: Cosmetic evolution and RAHN-Cosmetic Actives development.

Furthermore, the transfer of those values into the practice is best visible and tangibly explained in our newest and not yet launched cosmetic ingredient – LIFTONIN®-QI.

LIFTONIN®-QI – From theory into practice

Development of LIFTONIN®-QI, a water-based extract, obtained from the fungus *Ganoderma lucidum* (Figure 4) has been inspired by our sales manager for China Yao Ji and Traditional Chinese Medicine (TCM).

This legendary fungus has been used for thousands of years in TCM and its use was reserved for the particularly affluent. Brigit Suter, our quality manager, ensured highest quality of all raw materials used for the manufacturing of LIFTONIN®-QI. According to her the quality of finished cosmetic product is only as good as the raw material used. We have selected an organic cultivation of this rare mushroom in a laboratory environment in Europe. This guarantees a consistently high quality and preserves the mushroom population in its natural environment. The clinical studies have shown superior lifting effects and profound in-vitro studies and revealed underlying mechanisms of the epigenetic programming in skin cells. LIFTONIN®-QI is able to reset the epigenetic clock to the “youth time” by positively regulating epigenetic processes in the cells and is able to make a happy face. Additionally, Dr. Emina Besic Gyenge monitored

the product life assessment. The “cradle-to-gate” approach has been used to calculate the energy consumption from cultivation, harvesting, processing, manufacturing and transportation ensuring total transparency across our supply chain. The used energy has been converted in CO₂ equivalents and offset by supporting projects in Switzerland and China, covering 15 of the 17 UN sustainability goals.



Figure 3: Clean Beauty Compass visualises the values we follow in our development steps.

Of course, the countless process steps from the idea to the finished product need a well-organised and experienced coordinator. Barbara Obermayer, Head of the RAHN-Cosmetic Actives team, ensures an optimal and smooth procedure for every RCA development. Each of our team members (Figure 5) contribute to

the innovation process. We are living and identifying ourselves with the developed products, and this is visible in every single drop.

**Curious about LIFTONIN®-QI?
This brand-new active will be
launched in May 2021.**

Click to explore Clean Beauty ...



Figure 4: Ganoderma lucidum is traditionally used for tea preparations.



Figure 5: RAHN-Cosmetic Actives Team. From upper left picture, clockwise: Barbara Obermayer, Brigit Suter, Stefan Hettwer, Chiara Degl'Innocenti, Yao Li, Loya Schöffel, Philippe Aeby and Emina Besic Gyenge.

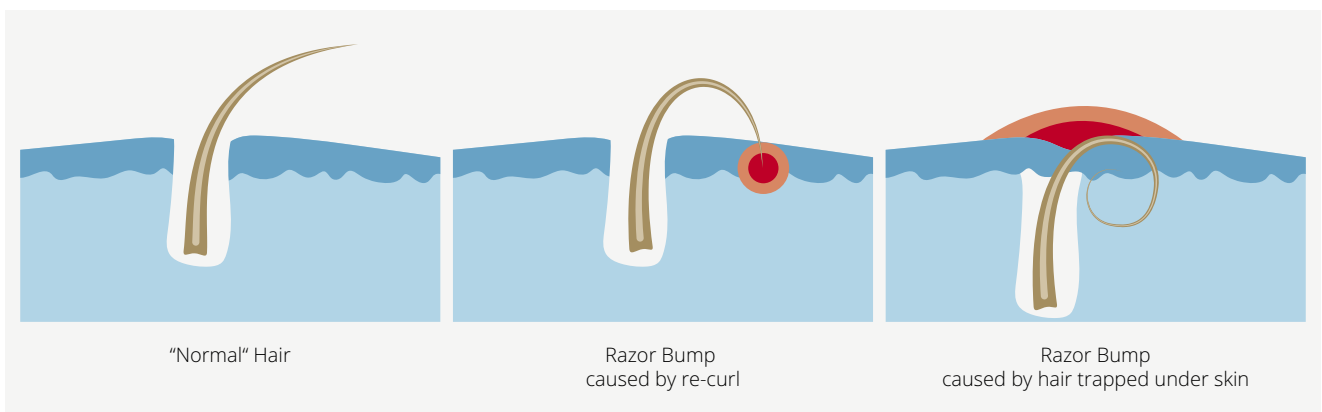
Have you heard of Pseudofolliculitis barbae?

Pseudofolliculitis barbae, also known as “shaving bumps” or “razor bumps” is inflammation of hair follicles and surrounding skin, caused by hairs trapped beneath the skin surface which form dark marks and bumps.

These bumps may be small or large and commonly occur on the cheeks, chin, jawline, neck, submental (the area under the chin) areas and the scalp. This condition is quite common among men with brown skin, particularly those who are African American and Latino American, with tightly curled hair.

The cause of pseudofolliculitis barbae is the hair emerging from the curved follicle, which grows almost parallel to the skin surface (instead of away from the skin), and then curves inward again. The inward-curving hair punctures the skin, causing an inflammatory reaction.

Red spots and pustules develop on the skin overlying the inflammation. Spots can be large and once healed, they can cause a dark discolouration of the skin and scarring, including keloid scarring.



Chronic inflammation

A persistent vicious circle

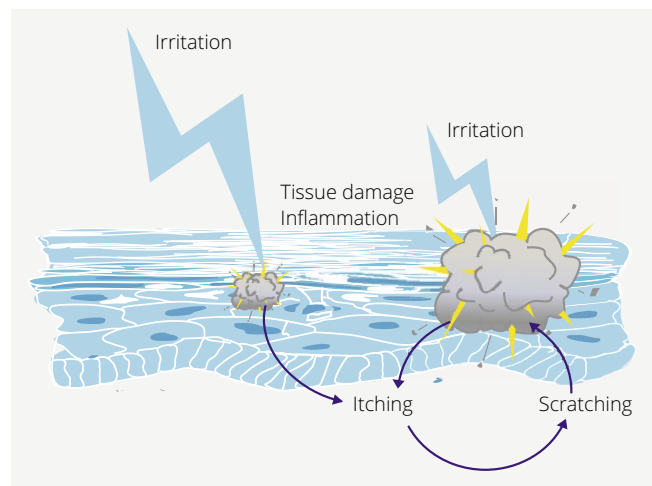
Reasons for chronic inflammation:

- Persistent irritation
- Inability of the body to resolve an acute inflammation (abscesses, scars)
- Hypersensitivity / disturbed barrier (sensitive skin with enhanced penetration of irritants)

Vicious circle of sensitive skin:

- Irritation induces tissue disruption and inflammation
- Itching and desire to scratch;
- Additional damage of tissue and barrier
- Enhanced skin sensitivity

The consequences:
Sensitive skin, Inflamm-ageing





How to treat razor pumps?

Pseudofolliculitis barbae is a chronic condition. It is very important to stop at least temporarily shaving so that healing may occur. Continuing to shave over inflamed skin can cause the development of permanent scars as well as permanent changes to the hair. Pseudofolliculitis barbae can be successfully managed by altering grooming habits and using available topical treatment options.

Try our SOS-Treatment to treat your Razor Bumps ...

St	Substance	INCI name USA	% [w/w]	Manufacturer
1	Water demin.	Water	59.90	several
	Glycerin 85 %	Glycerin, Water	3.00	several
2	Carbopol Ultrez-10	Carbomer	0.20	Lubrizol, US
3	Keltrol CG-SFT	Xanthan Gum	0.20	CP Kelco, US
	Tego Alkanol 1618	Cetearyl Alcohol	3.00	Evonik, DE
	Dermofeel GSC	Glyceryl Stearate Citrate	3.50	Evonik, DE
	Amisoft HS-11P(F)	Sodium Stearoyl Glutamate	0.30	Ajinomoto, JP
	Tegosoft CI	Cetearyl Isononanoate	7.00	Evonik, DE
	Verstatil PC	Phenoxyethanol, Caprylyl Glycol	1.00	Evonik, DE
	Myritol 312	Caprylic / Capric Triglyceride	18.00	BASF, DE
	Dermofeel Toco 70 non-GMO	Tocopherol, Helianthus Annuus (Sunflower) Seed Oil	0.10	Evonik, DE
4	NaOH solution 10 %	Sodium Hydroxide, Water	0.60	several
5	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	3.00	RAHN AG, CH
6	Parfum PCV 856	Fragrance	0.20	Essencia, CH

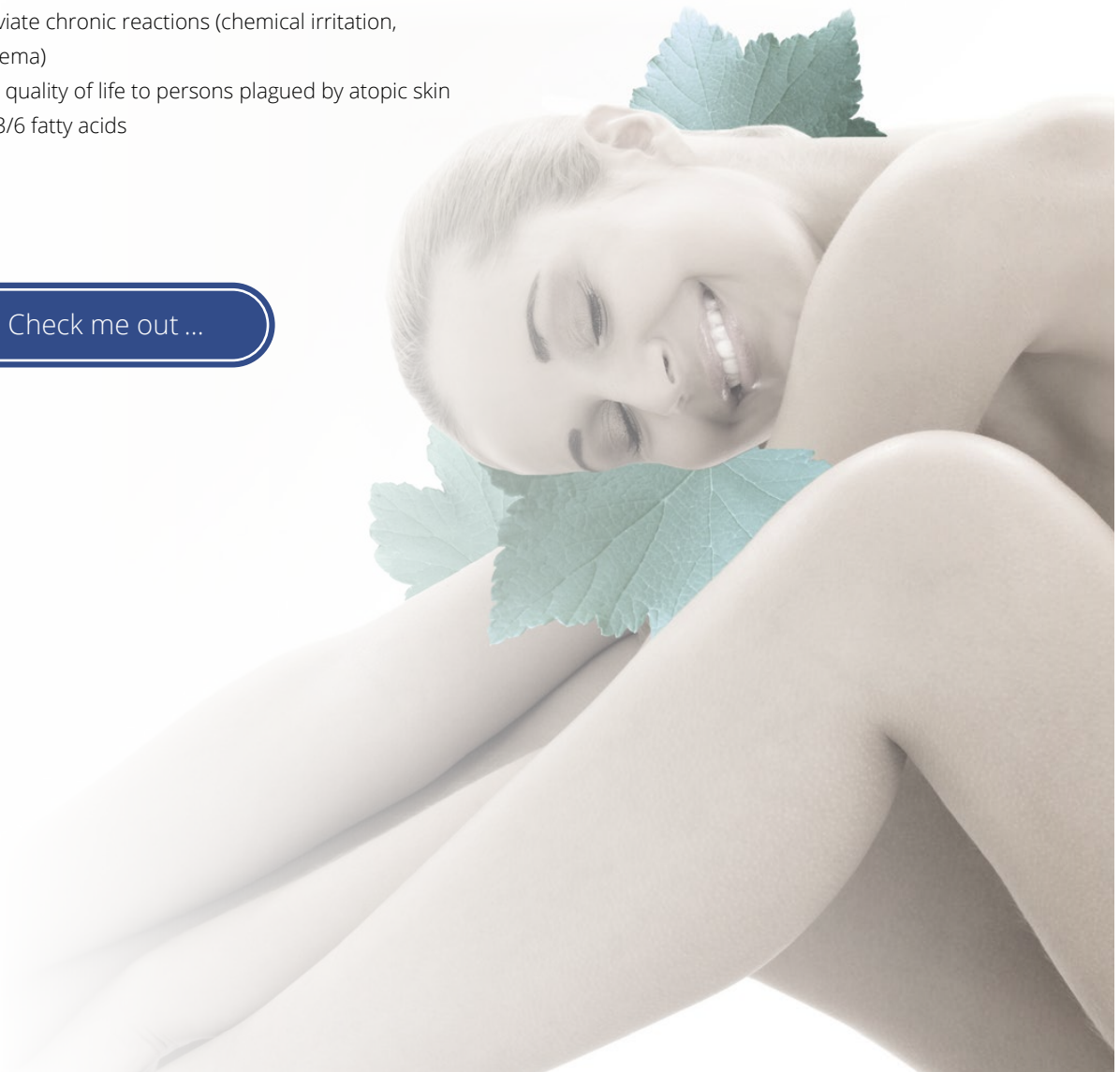
DEFENSIL[®]-PLUS

First Aid for Inflamed Skin

- Replenishes the damaged skin barrier and eases inflammatory processes
- Soothes acute skin irritation (razor burn, mosquito bites)
- Helps alleviate chronic reactions (chemical irritation, atopic eczema)
- Gives new quality of life to persons plagued by atopic skin
- Rich in ω -3/6 fatty acids



Check me out ...



Animal Grooming

Grooming is a major part of our pet's wellbeing. And like us every pet needs to be pampered once in a while. Let's learn about some facts first...

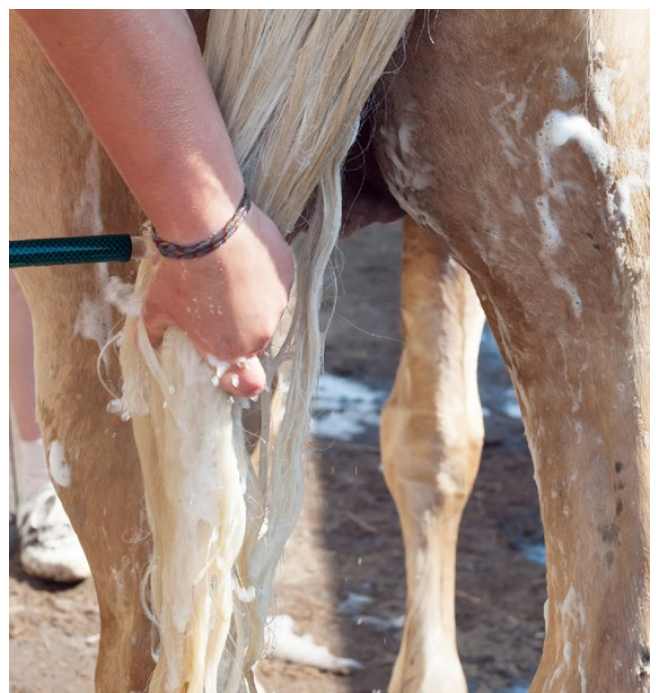
Care for Canines / Felines

- Bathing is an important part of general pet care. For cats and dogs with healthy skin and a healthy coat, the most common reason to bathe is to remove an unpleasant odour or because they've accumulated dirt on their coat.
- Further benefits of bathing can include cleaning the skin and coat which helps to remove loose hair, scale and improve the coat's shine.
- If you are bathing your pet too frequently it can dry out their skin and hair coat and may cause problems as the natural oils on the skin and coat are stripped away.
- Cats and dogs have sensitive skin. Human skin is more acidic than the skin of our pets, so using human shampoo products may have some unbalancing effect on their skin pH. The pH of dog and cat skin ranges from 6.2 to 7.2.
- Choose a mild pet shampoo. You can also try applying a gentle rinse-out conditioner to help prevent dryness after shampooing or a Gloss Coat Spray for lightly conditioning the coat, making it shiny, soft, smooth and manageable.
- Human type baby shampoos can be useful, in that they are non-irritant, but they don't lather up and clean as well as others.



Care for Equines

- A healthy, shiny coat is a sign of good equine health in the largest, most visible organ – the skin.
- Many horses have sensitive skin. Horses need a mild shampoo or body wash, that is powerful enough to remove dirt and sweat without stripping away the skin's own natural oils, which could support a skin condition. Bumps, irritation, swelling, rashes and infections are all signs of compromised equine skin health.
- It is not always ideal to clean a horse with a regular shampoo, as this will dry out the skin. An equine shampoo is formulated with a pH balanced for equine skin and is therefore less likely to cause irritation.
- The skin acidity is different from yours or from your dog, cat, etc. – the horse's skin has a pH between 7.0 to 8.0.
- Sweat and dirt raises the pH to the alkaline, so a neutral-to-slightly acidic pH is ideal to help restore your horse's skin to its normal pH. This is important because it creates conditions less favorable for bacteria to thrive.



What does RAHN have for us?

- **Amisoft ECS-22W** is a mild amino acid based, weakly acidic, anionic surfactant. It has an excellent conditioning effect to the skin and coat, leaving them moisturised yet without dryness. It generates a creamy foam and has excellent foam stability.
- INCI: *Disodium Cocoyl Glutamate, Water*
- Better suited for Canines / Felines



- **Amilite ACS-12** is a mild cleansing agent. It produces a creamy and resilient foam under weakly acidic to neutral conditions. It imparts a pleasant moisturising feel after drying and leaves skin and coat conditioned. The foam produced has elasticity and there is good foaming power, even in the presence of oil and hard water.
- INCI: *Sodium Cocoyl Alaninate, Water*
- Suitable for Canines, Felines and Equines



- **Andiroba Oil** is known for its anti-inflammatory and soothing properties. This oil is traditionally used as an insect and parasite repellent. Recommended uses are products for treatment of insect bites, insect repellent sprays and oils for massage products with anti-inflammatory effect.
- INCI: *Carapa Guianensis Seed Oil*
- Suitable for especially for Equines



- **Prodew 500** is a moisturising agent made up of an amino acid blend. It improves both hair strength and shine. Prodew 500 has good adhesion to hair, therefore acting as a conditioning agent.
- INCI: *Sodium PCA, Sodium Lactate, Arginine, Aspartic Acid, PCA, Glycine, Alanine, Serine, Valine, Proline, Threonine, Isoleucine, Histidine, Phenylalanine, Water*
- Suitable for Canines, Felines and Equines



-
- **Ajidew NL-50** is made up of PCA, a Natural Moisturizing Factor (NMF) component, derived from L-Glutamic Acid. It is a humectant with great moisturising properties. Ideal for Skin/Coat Care products to prevent dry skin and dandruff. Ajidew NL-50 is also a great conditioning agent with anti-static effect for coat and mane.
 - INCI: *Sodium PCA, Water*
 - Suitable for Canines, Felines and Equines



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- **Aloe Vera** contains vital substances for skin moisturisation and is well known for its wound healing properties. It is ideal for shampoo or body wash products and also for hoof gels to retain moisture and encourage healthy growth.
 - INCI: *Aloe Barbadensis Leaf Juice*
 - Suitable for Canines, Felines and Equines



-
- **AQUARICH®** is a moisturiser for skin and coat / mane. It has water-retaining substances such as polysaccharides and amino acids and therefore the transepidermal water loss is reduced. When used on hair the structure and gloss are improved and even split ends are prevented.
 - INCI: *Glycerin, Aqua, Avena Strigosa Seed Extract, Lecithin, Potassium Sorbate, Citric Acid*
 - Especially suitable for Equines



-
- **Hydrasynol DOI** is a lipophilic hydrator. It provides long-lasting and deep hydration for skin and hair. It has also excellent gloss enhancing properties and is therefore suitable for Shine Spray applications for the horses mane.
 - INCI: *Isosorbide dicaprylate*
 - Especially suitable for Equines



Clarify your mind ... Clear Cosmetic Clutter

Mindfulness is not only an amazing way to help you focus and relax, it also has a practical application. With mindfulness, you can clean your bathroom cabinets and sink tops, your dressing table drawers and surfaces and get rid of some problematic attitudes too.

Decluttering Cosmetics Exercise

For this exercise choose a time when you are not rushed or stressed. Allow plenty of time to enjoy the task. Make sure you have a trash can nearby and some cleaning products at hand. Start by examining each of the beauty products you possess.

As you pick up each one, ask yourself:

- When did I buy this? Was it weeks, months or years ago?
- Why did I buy it? What prompted me? What mood was I in?
- How much did it cost? Did I get value for my money or is it overrated?
- What did I expect it to do? Did it perform?
- Do I waste it? Is it half-used?
- Is it past its expiration date?



Pay special attention to the emotions the beauty products elicit and the questions that arise within you. They may be positive or negative. Don't be surprised if they provoke feelings and insights you don't expect. Try to be non-judgemental, just notice the thoughts and feelings as they arise.

Asking these questions will help you clear out the physical clutter and clarify your mental state. Be honest with yourself. Throw away the items you don't need or want, especially if they are past their use by date.

Scrub the surfaces and wipe clean all the jars, bottles and containers. Restock your cosmetic cabinet with the items you have retained: The ones you use and like. You don't need more or less than that.

Continue to clear out your cosmetics on a regular basis and you will begin to buy them more mindfully as well. Let us know how it goes.



The Encyclopaedia of Cosmetics



...**O**ctocrylene

...**O**leosome

...**O**lfactory

...**O**ligopeptide

...**O**ligosaccharide

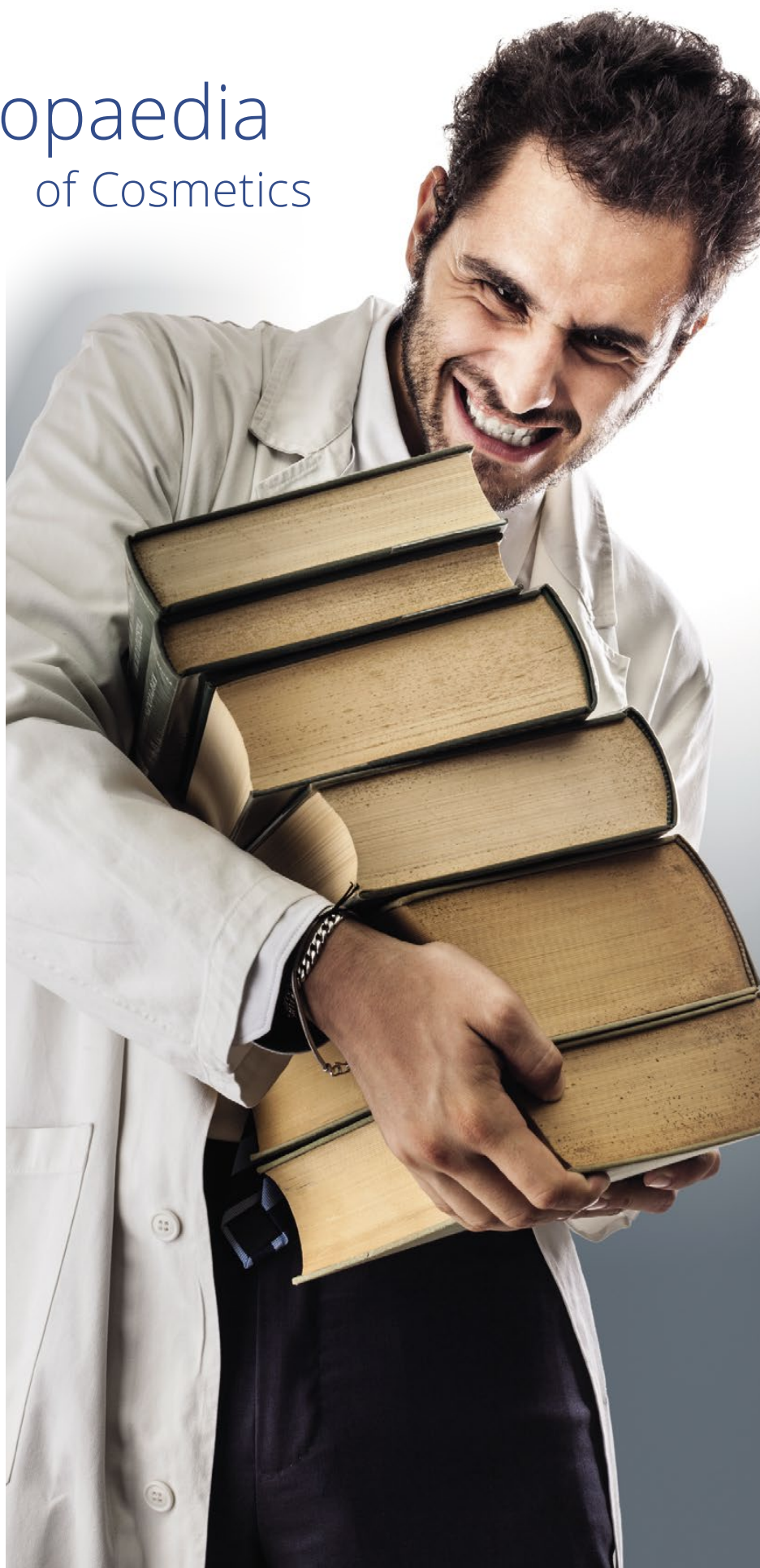
...**O**live Oil

...**O**il Thickener

...**O**/W emulsion

...**O**ral Care

...**O**smose water



Octocrylene

= an oil-soluble chemical sunscreen agent that protects skin in the UVB and somewhat in the UVA II range. Its protection is not strong enough on its own, but it is quite photostable and is often used to stabilize other photo-unstable UV-filters. It is also often used to improve the water resistance of the products.

Oleosome

= micron-sized droplets which are naturally present in some plant seeds; they act as reservoirs to hold plant oil. Oleosome technology is an encapsulation system with a time-release delivery. Once applied oleosomes begin to collapse and release their contents onto the skin surface.

Olfactory

= sense of smell. German researchers have discovered that the skin has olfactory receptors and can therefore "smell". They found five different types of olfactory receptors. The tests showed that olfactory receptors in the skin which were exposed to certain ingredients significantly boosted wound healing.

Oligopeptide

= a peptide made up of relatively short amino acid chains.

Oligosaccharide

= a saccharide polymer containing a small number of monosaccharides (simple sugars).

Olive Oil

= contains mainly fatty acids. The fatty acids in Olive Oil are around 70% Oleic Acid, 10% Linoleic Acid, 10% Palmitic Acid, 5% Stearic Acid and 5% Linolenic Acid. It is also a source of Vitamins E and K. Extra Virgin Olive Oil is the least processed and most natural of all Olive Oils available, where olives have simply been pressed to extract the oil. Refined Olive Oil has likely been heat processed to remove the odour, colour and flavour found in the naturally occurring oil.

Oil Thickener

= components for creating highly viscous or soft-solid oil phases.

O/W emulsion

= oil in water emulsion, which means oil droplets are suspended in water or aqueous phase.

Oral Care

= from toothbrush to mouthwash. Oral Care products are intended to cleanse the oral cavity, freshen the breath, and maintain good oral hygiene.

Osmose water

= it's purified water where ions, unwanted molecules and larger particles were removed using a semi-permeable membrane.

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