

ISSUE FEBRUARY 2019

COSMETOPOLITAN



COS-INSIDE

Latest News
from RAHN

LAB-NEWS

Magic Lipsticks;
It's movie time!;
Microplastic
Alternative

AROUND THE WORLD

What does
Upcycling exactly
mean?

GOOD TO KNOW

Fabulously
beautiful hair!

RAHN

Your partner for excellence

Dear Readers,



After the cold and dark seasons, the temperatures in spring are finally up again.

With our A to Z we tried to capture spring mood for you. Have fun and enjoy our new edition of Cosmopolitan.

- A** as April Fool's Day
- B** as Barefoot
- C** as Cherry Blossom
- D** as Daffodil
- E** as Evening Strolls
- F** as Flip Flop Time
- G** as Good Friday
- H** as Happy
- I** as Ice Cream
- J** as Joyful
- K** as Keen on Strawberries
- L** as Listen to Birds
- M** as Make a Flower Headband
- N** as Nature
- O** as Outdoors
- P** as Picnic
- Q** as Quince Blossom
- R** as Rain Boots
- S** as Sunkissed
- T** as Tulip Fields
- U** as Unpredictable Weather
- V** as Vacation
- W** as Watch a sunrise
- X** as Xtra Good Mood
- Y** as Yoga Outdoors
- Z** as Zoo Visits

Warmest regards,

Sandra Gut
from your RAHN-Team

WHO IS NEW?

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



GARY ASTILL
Function
Technical Sales Manager Cosmetics
RAHN UK
Joined
1 June 2018



ANGELINA GLADOVIC
Function
Supply Chain Management Cosmetics
Joined
1 June 2018



INDIGO DEAN
Function
Laboratory Technician Cosmetics
RAHN UK
Joined
1 July 2018



NIZAR HACHACH
Function
Head of Sales Germany Cosmetics
Joined
1 September 2018



JASMIN SCHAAD
Function
Product Manager Cosmetics
Joined
1 October 2018



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

Warning – Award Alarm ...

What a great year for our SEBOCLEAR™-MP!

We are happy to report that, parallel to its launch on the market, SEBOCLEAR™-MP was nominated for two awards at the in-cosmetics® global trade fair in Amsterdam in April 2018. The first was for the BSB Innovation Award, sponsored by the independent German BSB Consulting and Service Bureau Dr. Riedel. The award was conceived to promote the worldwide dissemination of knowledge and innovation. We are extremely pleased that SEBOCLEAR™-MP took first place in the award category “Innovative Materials – Natural Products”.

Alongside that, we submitted an entry for the Innovation Zone Best Ingredient Award at in-cosmetics global. This prize acknowledges the development of a novel active ingredient combining innovative science and product characteristics. We were delighted to take the 2nd place in the “Innovation Zone Best Ingredient” category.

Now let's go over to Asia and South America... In September at in-cosmetics South America and in October at in-cosmetics Asia SEBOCLEAR™-MP was each awarded bronze as part of the “Innovation Zone Best Ingredient Award”.

The next nomination is already scheduled for the end of February 2019, for the Happi Ringier Award in China. We are excited!



Sandra Breitenbach, Emina Besic and ambassador of InCosmetics Global



Barbara Obermayer and Stefan Hettwer / COSSMA, Angelika Meiss

... all good things come in threes or even fours?

We are very proud that DEFENSIL®-SOFT has now won its fourth award since its market debut in April 2017.

At the “China Ringier Technology Innovation Awards 2018” in Shanghai, we picked up the trophy and certificate in the category “Skin care (anti-sensitive & soothing)”.

The Ringier Technology Innovation Awards for industrial manufacturing were inaugurated by Ringier Trade Media in 2006. The prize is now awarded every year to a select group of innovators in a range of key industries in China.

DEFENSIL®-SOFT is derived from the edible mushroom *Albatrelus ovinus*, also known as the Northern truffle. The active ingredient blocks the pain receptor TRPV1 which is responsible for ultra-sensitive skin as well as heat-related skin ageing triggered, for example, by infrared rays. Within just a few minutes, DEFENSIL®-SOFT relieves discomfort such as prickling or burning, soothes highly sensitive skin and protects the skin barrier against IR stress.



1. Prize Category Most Innovative Raw Material



happi 国际个人护理品 生产 商情
china
个人护理品行业 - 荣格技术创新奖
Ringier Technology Innovation Awards 2018 Personal Care

Magic Lipsticks – Personalised lip colours

Back in the 90s, wristbands which changed colour were a must-have accessory for teenage girls; now there's also a lipstick which changes to suit your needs.

The colours of the Magic Lipstick change individually from pearly pink to cherry red. The secret lies in the formulation ... Alongside nourishing and moistening components, the sticks contain a special component, by the name "Red 27". This is a red pigment which is colourless when dissolved in a water-free environments. Red 27 can be incorporated into products such as cosmetic powders, wax sticks and oily gels.

Contact with the moisture in the skin as well as a shift in the skin's pH value result in a change in solubility which leads to the pigment turning bright pink. Moisture levels in the skin in particular have a key influence on the resulting colour.

In the RAHN laboratory, we work with oil thickeners GP-1 and EB-21 or also with the pre-dissolved mixture AJK OD2046 from our supplier AJINOMOTO, which enables the formulation of a transparent, nourishing lipstick.



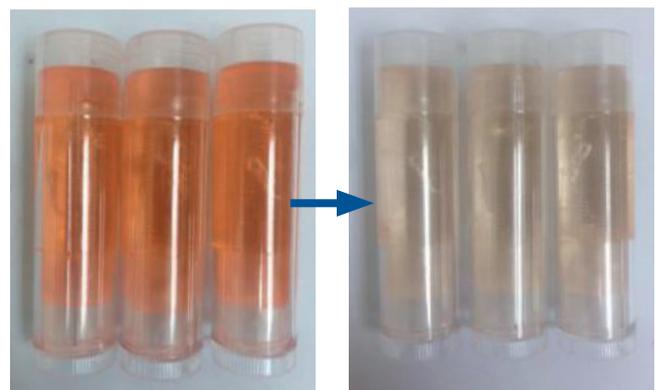
A formulation for a "colour-changing lipstick" could look like this:

St	Substance	INCI name USA	% [w/w]	Manufacturer
1	AJK OD2046	Octyldodecanol, Dibutyl Lauroyl Glutamide, Dibutyl Ethylhexanoyl Glutamide	30.00	Ajinomoto Co. Inc., JP
2	Panalane H-300E	Hydrogenated Polyisobutene	15.00	Vantage Personal Care, US
	Panalane L-14E	Hydrogenated Polyisobutene	25.70	Vantage Personal Care, US
	Eldew SL-205	Isopropyl Lauroyl Sarcosinate	5.00	Ajinomoto, JP
	Tegosoft TN	C12-15 Alkyl Benzoate	14.50	Evonik Industries AG, DE
	HydraSynol DOI	Isosorbide Dicaprylate	2.00	Sytheon Ltd, US
	Eldew PS-203R	Phytosteryl/Octyldodecyl Lauroyl Glutamate	7.00	Ajinomoto, JP
	Flavor Creme-de-Coco	Aroma	0.50	several
	Red 27	CI45410	0.20	several
	Citric Acid 100%	Citric Acid	0.10	several

Directly after manufacturing, the lipstick still has its rather reddish colour. But, don't worry, after around one day and completion of the reaction, it is transformed into a transparent and almost colourless stick.

And the best thing is: not only does the coloured lip balm create the perfect shade for your lips, it also nourishes them as well. What more could a girl want?

If you have any questions, the RAHN Application Lab is happy to help!



It's movie time!

RAHN studios proudly presents ...

1 LIFTONIN®-XPRESS

We are often asked for tips and tricks relating to how to use our LIFTONIN®-XPRESS ...

The following QR code takes you to a film which gives a step by step guide. See for yourself – it's really not that hard ...



Link to film page:

<https://www.youtube.com/watch?v=owi0exVWpWQ>



2 Sisterna – Emulsification Possibilities

A further FAQ relates to the incorporation of Sisterna emulsifiers...“Are the emulsifiers incorporated in the oil or water phase?” Or also: “Help! Lumps are formed. Is this normal?” These and other questions are answered in the following film ...

Simply scan the following QR code and off you go ...



Link to film page:

<https://vimeo.com/277099759>

Sit back & enjoy!

HOW CAN I SCAN A QR CODE?

QR codes are easy to scan using the camera of a mobile phone or tablet. Simply point your mobile phone camera at the QR code. As soon as the code has been recognised, the website opens. In some cases, an app is required to scan the QR code. These are available free from the App Store.

Microplastics – Isn't there an alternative?

On the subject of microplastics, we'd like to present **Kelcogel CG-HA**. This is a biotechnologically produced biopolymer made by CP Kelco. This highly acylated gellan gum was originally developed as a substitute for gelatine. It is currently of huge interest to the cosmetics sector as it meets the need for a natural, vegan and readily biodegradable gelling agent. The fact that it also conforms to COSMOS and NATRUE criteria rounds off its broad application spectrum.

One particular advantage of Kelcogel CG-HA is most certainly that it is easy to process. Furthermore, the raw material forms a

gel which breaks down relatively quickly and therefore has similar application properties to carbomer gel.

It should be noted that Kelcogel CG-HA does not form a clear / transparent gel (*the product remains cloudy*) and its texture is rather similar to jelly. The preferred field of application is therefore in o/w emulsions for a pleasant, creamy, gel-like texture.

The creaminess of the emulsion is regulated by dosage of the oil phase. For jar consistencies we recommend the use of fatty alcohol and an appropriate emulsifier.





Kelcogel CG-HA is used at a concentration of 0.05–0.1%. It should be heated in the water phase to approx. 70 °C, can be used in a wide pH range and is electrolyte tolerant.

During cooling there is a visible structure formation which finally returns to normal again. To ensure sufficiently good heat stability of the emulsion, we supplement the gellan gum with an additional 0.3 – 0.4 % Keltrol (xanthan gum).

Summary: Kelcogel CG-HA is particularly suitable for use in cases where a sensory alternative to carbomers in emulsions is required.

Here are two formulations for you to try out:

AFTER SUN CREAM-GEL

Raw material	INCI	% [w/w]	Manufacturer
Water demin.	Water	75.5	several
Glycerin 99 %	Glycerin	2.0	several
Kelcogel CG-HA	Gellan Gum	0.1	CP Kelco
Keltrol CG-SFT	Xanthan Gum	0.4	CP Kelco
TEGO Care PSC 3	Polyglyceryl-3 Dicitrate/Stearate	2.0	Evonik
Dermofeel Sensolv	Isoamyl Laurate	3.0	Evonik Dr. Straetmans
Coconut Oil organic	Cocos Nucifera Seed Oil	6.0	AOT
Myritol 312	Caprylic/Capric Triglyceride	6.0	BASF
Eldew SL-205	Isopropyl Lauroyl Sarcosinate	3.0	Ajinomoto
Dermosoft MCA Variante	Caprylyl Glycol, Dicaprylyl Glycol, Glyceryl Caprylate	1.0	Evonik Dr. Straetmans
Perfume Vital N123	Fragrance	0.2	Huber the Nose
HydraSynol IDL	Isosorbide Disunflowerseedate	0.5	Sytheon
Alpha-Lupaline	Lupinus Albus Seed Oil, Triticum Vulgare (Wheat) Germ Oil	0.3	Lab. Expanscience

→ Quick-break without Carbomer; Low emulsifier content

ANTI-AGEING FACE CREAM

Raw material	INCI	% [w/w]	Manufacturer
Water demin.	Water	71.8	several
Glycerin 99 %	Glycerin	2.0	several
Kelcogel CG-HA	Gellan Gum	0.1	CP Kelco
Keltrol CG-V	Xanthan Gum	0.4	CP Kelco
Dermofeel GSC	Glyceryl Stearate Citrate	2.0	Evonik Dr. Straetmans
TEGO Alkanol 1618	Cetearyl Alcohol	5.0	Evonik
Dermofeel Sensolv	Isoamyl Laurate	3.0	Evonik Dr. Straetmans
HydraSynol DOI	Isosorbide Dicaprylate	2.0	Sytheon
Myritol 312	Caprylic/Capric Triglyceride	8.0	BASF
Tegosoft CI	Cetearyl Isononanoate	2.0	Evonik
Dermosoft MCA Variante	Caprylyl Glycol, Dicaprylyl Glycol, Glyceryl Caprylate	1.0	Evonik Dr. Straetmans
Synoxyl AZ	Acetyl Zingerone	0.5	Sytheon
LIFTONIN®- XPERT ECO	Water, Mannan, Pentylene Glycol, Citric Acid	2.0	RAHN AG
Perfume Vital N123	Fragrance	0.2	Huber the Nose

→ Refreshing and light; Vegan; Protection & Care; Preservative-free

Experience the refreshingly light touch for yourself!

Consult your Application Lab team if you have any questions.

CP Kelco products are not distributed by RAHN in the UK and France.

What exactly is upcycling?

We would like to present this ground-breaking and sustainable approach from Laboratoires Expanscience.

Upcycling is a modern form of recycling. The difference, however, is that a product or raw material is not only re-used but also processed further and enhanced at the same time.

A wide variety of materials can be upcycled. Worn-out fire hoses, remnants from textile production or old army blankets – they all have their uses and can be transformed into better-quality products. Upcycling therefore not only saves resources, it also reduces energy consumption and air and water pollution.

Laboratoires Expanscience focuses on the recovery of by-products from the food industry, giving them a new lease of life.

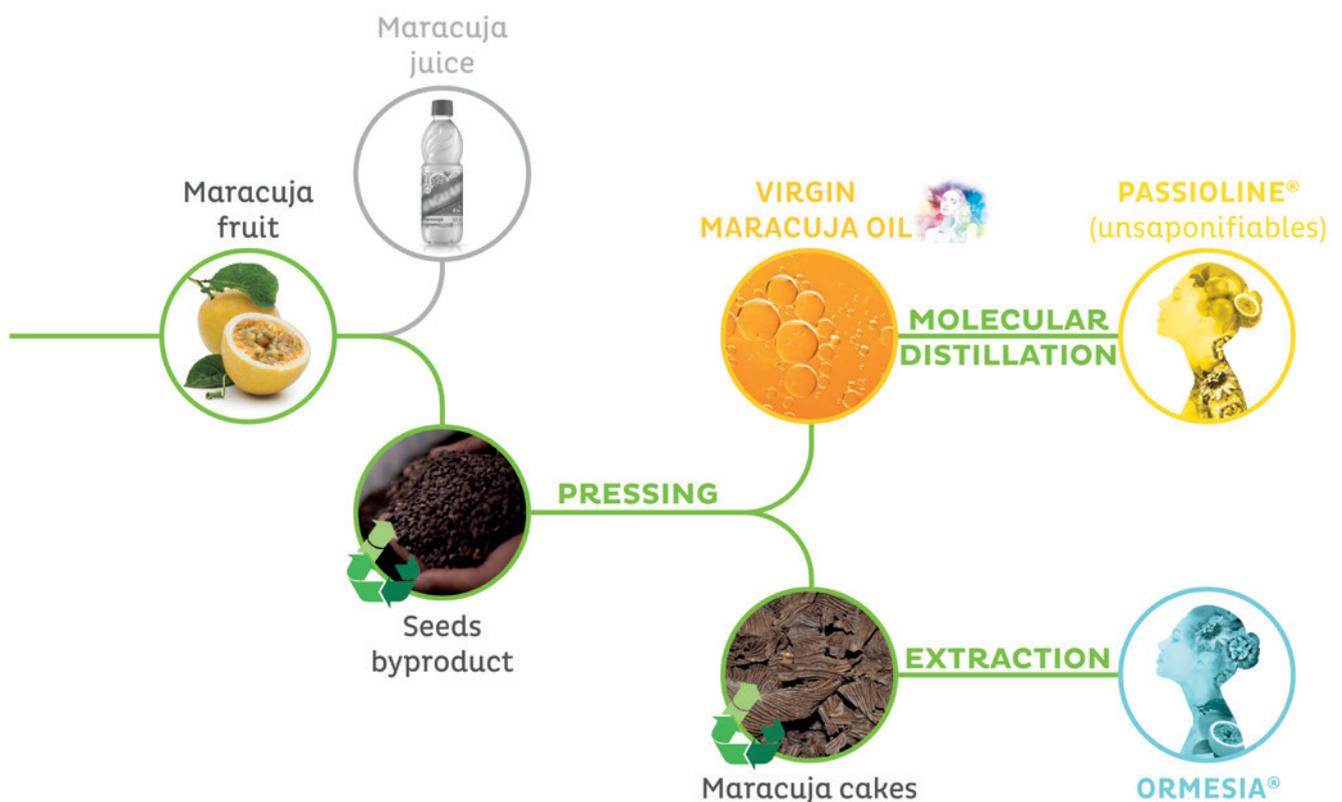


In collaboration with “Deshidratados Tropicales”, a company acquired in 2016, Laboratoires Expanscience is developing responsible ways of sourcing avocado, passion fruit and maca in Peru.

The use of by-products from the passion fruit juice industry is a perfect example of upcycling.

Passion fruit is well known in Peru for its antioxidant and thirst-quenching properties and it is mainly grown to produce passion fruit juice.

First of all, Laboratoires Expanscience buys the passion fruit seeds from the juice-making companies. “Deshidratados Tropicales” extracts pure passion fruit oil – “Virgin Maracuja Oil”, to give it its product name – by cold pressing the seeds. The oil makes for a delightful sensory experience and is known for its moisturising properties. A further by-product resulting from this process is passion fruit press cake.



Alongside the marketing of **“Virgin Maracuja Oil”**, the pure oil goes through a molecular distillation process. This is used to extract **“Passioline”**, which has received many awards for its unique healing properties and sustainable and responsible production method.

The passion fruit press cake is upcycled in turn to produce the anti-pollution active ingredient **“Ormesia”**.

Laboratoires Expanscience has not only created three great products, but also an upcycling process for by-products which safeguards people’s jobs and generates new sources of income.

Are you interested in how avocado and maca are upcycled?

We’d be pleased to send you some more information.



Fabulously beautiful hair!

Everyone loves glossy, smooth hair, just like Rapunzel in the fairy tale! However, it is not that easy to get such fabulous hair or to take care of it.

Sometimes you feel like tearing your hair out: either your hair doesn't sit right or it is thin or dull or lacks volume. Your curls just won't be tamed and you suffer from split ends ...

See our RAHN tips below for beautiful hair, just like Rapunzel ...

Strength	Shine	Moisture	Protection
			
<p>SKINHAIRGIUM® Bio for visibly healthy, strong hair</p> <ul style="list-style-type: none"> · Boosts hair growth · Prevents hair loss · Strengthens hair root 	<p>HydraSynol DOI for proven improvement in shine.</p> <ul style="list-style-type: none"> · Makes wet and dry hair easier to comb · Smoother feel 	<p>AQUARICH® for intensive moisturising care</p> <ul style="list-style-type: none"> · Deep-penetrating, long-lasting moisturising care · Improves hair structure · Combats split ends 	<p>Silkgel for proven protection against dirt particles</p> <ul style="list-style-type: none"> · Significant reduction in adhering carbon particles · Forms a breathable film · Anti-static properties · Colour protection

For more details and efficacy studies, simply contact your RAHN team.

Warning: bloodsuckers!

Midges can not only rob you of your sleep, they can also totally ruin an idyllic evening outdoors. Some insect repellents stop working, others irritate the skin and some even pose a health hazard.

We'd like to present a gentle but effective protection product to send midges packing. The combination of Icaridin and Silkgel is the key here.

Silkgel is a vegan silk protein, characterised by high stability and elasticity. On the skin the breathable silky film generally provides effective protection and therefore works like a "STOP"-sign against pollution, harmful substances, microorganisms and irritants.

Silkgel can also be used to fix substances, in this case Icaridin, thereby prolonging its effectiveness. Studies have been carried out on the permeability of substances in combination with a fixing effect. It must be noted here that insect repellents such as Icaridin are subject to the Biocides Regulation.

The physical protective barrier means that this kind of anti-mosquito product containing Silkgel is particularly suitable for people with sensitive or irritated skin.

RAHN tip:

Animals, too, are troubled by attacking bloodsuckers. How about anti-insect protection, for example for horses?



Have you heard about our **“SOS Mosquito Bite Treatment”**?

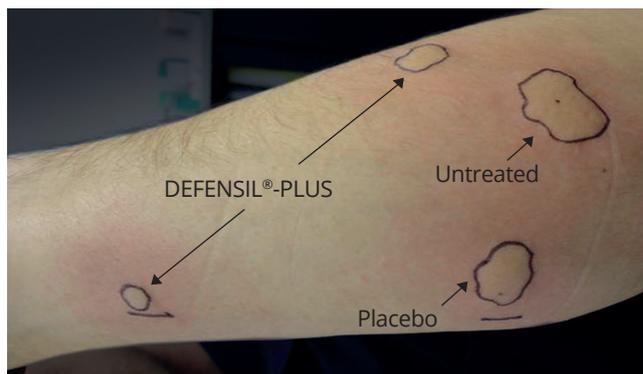
St	Substance	INCI name USA	% [w/w]	Manufacturer
1	Cupuacu Butter Refined	Theobroma Grandiflorum Seed Butter	20.30	Laboratoires Expanscience, FR
	Kahlwax 2039 L	Euphorbia Cerifera (Candelilla) Wax	4.00	Kahl GmbH & Co. KG, DE
	Beeswax white	Beeswax	6.00	Kahl GmbH & Co. KG, DE
	Tegosoft CT	Caprylic / Capric Triglyceride	42.50	Evonik Industries AG, DE
	Sisterna A10E-C	Sucrose Tetrastearate Triacetate	10.00	Sisterna B.V., NL
	Tegosoft CR	Cetyl Ricinoleate	5.00	Evonik Industries AG, DE
	Andiroba Oil	Carapa Guaianensis Seed Oil	5.00	Laboratoires Expanscience, FR
	Dermofeel MT 70 non-GMO	Tocopherol; Helianthus Annuus (Sunflower) Seed Oil	0.20	Dr. Straetmans, DE
2	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	5.00	RAHN AG, CH
3	Lemoncello	Fragrance	2.00	Aromatic Flavours & Fragrances Europe Ltd., GB

Doubly effective formulation thanks to **andiroba oil** and **DEFENSIL®-PLUS**.

The **andiroba oil** is derived from the seeds of the tree of the same name (*Carapa guianensis*) which is native to the typical rainforest vegetation of the Amazon region. It is an extremely skin-friendly oil with a pleasant scent. Pure andiroba oil is rich in essential fatty acids and provides up to 10 % linoleic acid. Traditionally, andiroba oil is also used to protect against midges. Its insecticidal properties are ascribed to so-called limonoids.

DEFENSIL®-PLUS significantly eases the effects / tissue damage caused by insect bites. The SOS treatment with DEFENSIL®-PLUS reduces the severity of insect bites by up to 35 %.

Have fun trying it out!



Searching for inspiration

or a quick solution?

Take a look at our website. You'll find all our guide formulations under "Services" – and you don't need to log in.

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

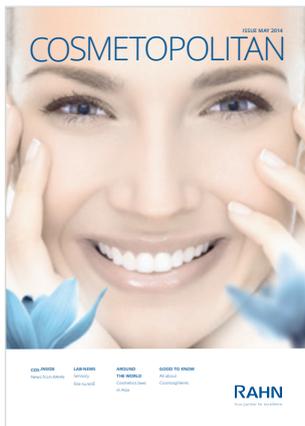
point and provide information on the dosage of individual ingredients and production of the product. All of our formulations are also examined for their stability and generally contain selected active ingredients which permit targeted product claims. New creations are continuously being added to the range of guide formulations, inspiring new ideas with regard to the formulation itself and also from a marketing perspective.



Collect them all!

Send an email to cosmetics@rahn-group.com and order your missing issue ...

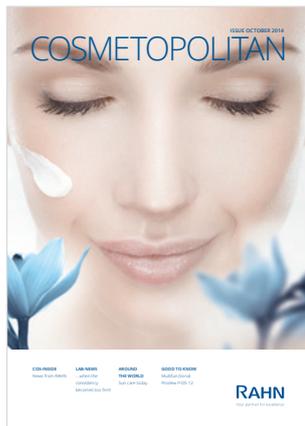
Issue 1 – May 2014



Topics

- Sensory fine-tuning
- Cosmetics laws in Asia
- Cosmospheres

Issue 2 – October 2014



Topics

- Emulsions: when the consistency becomes too firm
- Sun care today
- Multifunctional Prodev P-DS-12

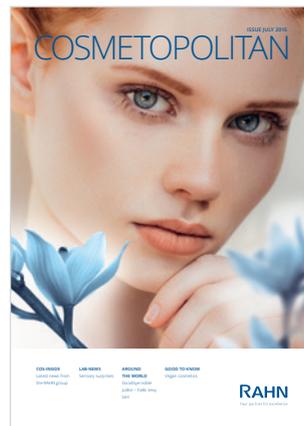
Issue 3 – March 2015



Topics

- Combating oxidative processes in cosmetics
- Have you head of the fruit of life"?
- Thickeners don't make you fat!

Issue 4 – August 2015



Topics

- Sensory surprises
- Goodbye noble winter paleness – hello sexy tan
- Vegan cosmetics

Issue 5 – February 2016



Topics

- Colour-stable formulations with plant extracts rich in phenols
- Cosmetics in Asia
- Spots-practically everyone has them but nobody wants them...

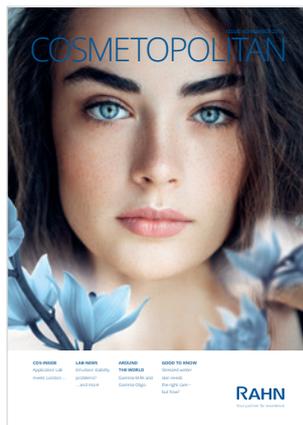
Issue 6 – May 2016



Topics

- Mild luxury cleansing: from "Creamy, liquid Body Wash" to "Luxurious, rich Face Cleanser"
- Argan oil – beauty care from Morocco
- Hair care – how to get it right!

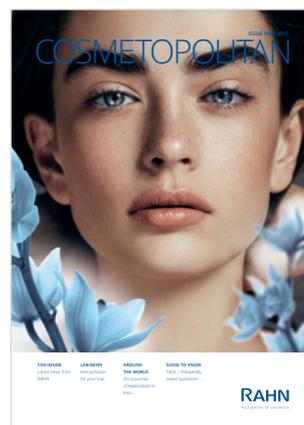
Issue 7 – November 2016



Topics

- Application Lab meets London ...
- Emulsion stability problems? ... and more
- Gamma-MAX and Gamma-Oligo
- Stressed winter skin needs the right care – but how?

Issue 8 – May 2016



Topics

- Latest news from RAHN
- Anti-pollution for your hair
- On a journey of exploration in Peru
- FAQs – Frequently asked questions

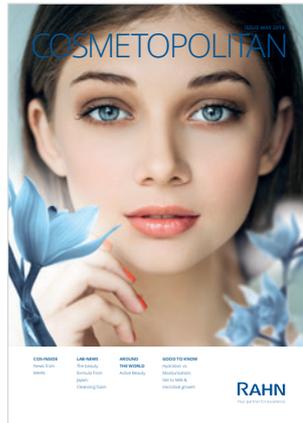
Issue 9 – December 2017



Topics

- News from RAHN
- Chapped lips?
- Beauty trends from Asia
- Aloe Vera Products & INCI declaration

Issue 10 – May 2017



Topics

- News from RAHN
- The beauty formula from Japan; Cleansing foam
- Active Beauty
- Hydration vs. Moisturisation; Gel to Milk & microbial growth



Did you know? Our Cosmetopolitan is also available online. Follow the link

<http://www.rahn-group.com/de/cosmetics/news/>
and download your issue by clicking on the Cosmetopolitan tab.

The Cosmetic Encyclopaedia

for ...

for ...

...J-Beauty

...Jojoba Oil

...Juvederm

...K-Beauty

...Kaolin

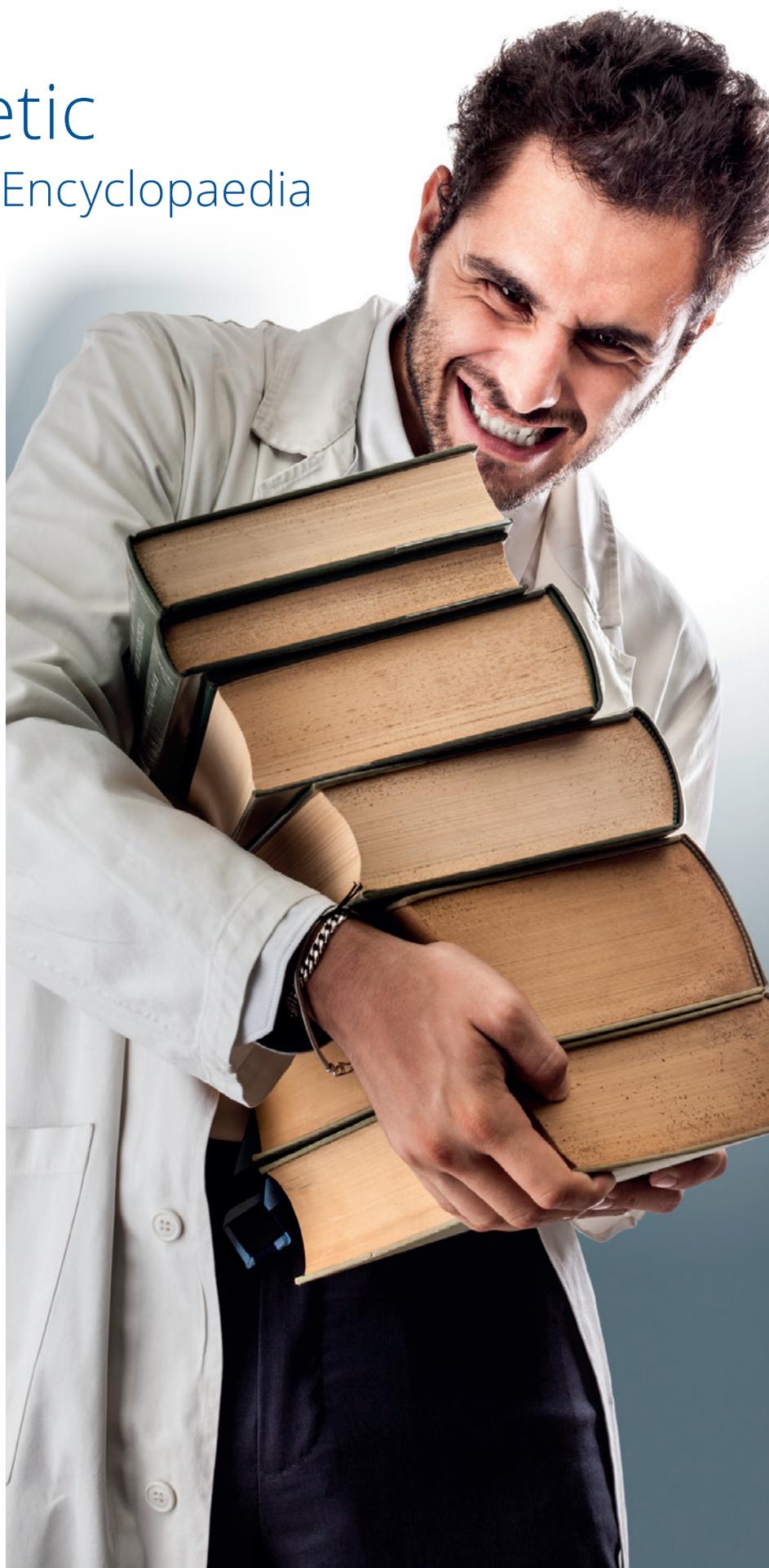
...Keloid

...Keratin

...Keratinocytes

...Keratolytic

...Kojic acid



J-Beauty

J-Beauty is a Japanese beauty trend and is about functionality and simplicity with long-term results. The products originate in Japan and derive from their beauty methods and customs.

Jojoba Oil

The jojoba plant is a hardy, perennial plant that is found in the arid regions of California, Arizona and Mexico. The odourless, golden oil is extracted from the seeds of the jojoba plant (*Simmondsia chinensis*). Jojoba Oil has great moisturising properties due to its high ceramide content.

Juvederm

A cosmetic treatment referred to as a filler. It is used to restore facial contours and reduce the signs of ageing.

K-Beauty

K is for Korea. The K-Beauty trend focuses on great ingredients for hydrating and protecting the skin. It is famous for its sheet masks, snail gel creams, eye gel patches and the renowned 10-step skincare routine. K-beauty is driven by trends. It meets those tentative needs of the consumer that are hot at the moment.

Kaolin

A naturally occurring clay mineral (aluminium silicate). Its colour ranges from white to dark brown. Kaolin's absorbent properties make it a popular ingredient in clay masks for oily skin. Kaolin absorbs moisture. This means it is an excellent ingredient for use in product formulas which are self-preserving.

Keloid

Overproduction of collagen. Keloids are smooth, hard growths that can form when scar tissue grows excessively. Keloid scars can be much larger than the original wound.

Keratin

Fibrous proteins that form the chemical basis of horny epidermal tissues such as hair and nails.

Keratinocytes

A type of skin cell that is responsible for the formation of keratin.

Keratolytic

Describes a therapeutic treatment to remove warts, calluses and other lesions in which the epidermis produces excess skin. Salicylic acid, for example, is a keratolytic agent. It works by increasing the amount of moisture in the skin and dissolving the substance that causes the skin cells to stick together. This makes it easier to shed the skin cells.

Kojic acid

Kojic acid is a chemical produced from different types of fungi. It takes the form of a white powder and is soluble in water. It has skin-lightening properties since it inhibits melanin formation. It is also used to preserve or stabilize colours in cosmetic products.



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