

Rejuvenating sleep-starved skin

Sleep is a simple secret of beautiful skin, but our hectic lives often rule our rest routine. The lack of sleep creates stressful conditions that raise the level of internal toxins, one of which is glycotoxin. Glycotoxins deregulate the skin's natural systems responsible for the repair and protection processes that occur during sleep; consequently, this deregulation contributes to impaired cell function, tissue disruption, damaged microvessels, etc.

With Prodzia, Sederma provides a solution that promotes a visible reduction in the cutaneous signs of fatigue: dark circles, under eye bags, dull complexion and drawn features.

By supporting specific detoxifying systems



(glyoxalase and proteasome), Prodzia can both protect and repair the proteic structures damaged by glycation. Furthermore, Prodzia

helps regulate melatonin levels of glycation-stressed skin cells, ensuring an optimal repair process during sleep. This, along with its ability to help fight against glycation during the day and repair proteic structures damaged by glycation during the night, makes it perfect for a 24-hour treatment.

An *in vivo* two-month study clearly demonstrated that the volunteers themselves noted a significant reduction in the visibly tired look of their face after just 10 days of applying a cream containing Prodzia; and by the end of the study there was an overall 44% reduction.

Thanks to Prodzia, the skin looks prodigiously refreshed just like after a good night's sleep.

Editor

Richard Scott
richardscott@stepcomms.com

Technical Editor

Chris Smith
chrissmith@stepcomms.com

Technical Consultant

Anthony C. Dweck, BSc. CChem FLS FRSC FRSPH
tonydweck@stepcomms.com

Publishing Director

Josh Taylor
joshtaylor@stepcomms.com
Trevor Moon
trevormoon@stepcomms.com

Publication Administration

Kate Phillips
katephillips@stepcomms.com

Design

Dave Woodall
Ray Ecclestone

To receive regular copies of this magazine, please apply in writing to The Circulation Dept Step Communications Ltd



STEP
COMMUNICATIONS

Published by:

Step Communications Ltd
Step House, North Farm Road,
Tunbridge Wells, Kent TN2 3DR, UK
Tel: +44 (0)1892 779999
Fax: +44 (0)1892 616177
Email: personalcare@stepcomms.com
Website: www.personalcaremagazine.com

Printed by:

Taylor Bloxham Ltd, Leicester LE4 1BR



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ISSN 2041-0441

UK distributor appointed

Arizona Chemical, a biorefiner of pine-based materials, announced it has entered into an agreement with ProTec Ingredia, to distribute the company's unique line of bio-based specialty polymers to the personal care industry in the United Kingdom of Great Britain and Ireland.

Under the agreement, which was effective as of 1 January 2012, ProTec Ingredia will offer Sylvaclear, Sylvasol and Uniclear polymers, Arizona Chemical's patented specialty products

that provide a broad range of functionality in personal care applications.

"The team at ProTec Ingredia has vast expertise in the personal care markets and specialises in sourcing and supplying products to customers of all sizes," said Tom Fontana, director of specialty products for Arizona Chemical. "They understand the global nature of our industry, and we're confident they'll exceed the needs of our customers in this region."

COMMENT

Sustainability focus moves on

At the European Sustainable Cosmetics Summit held at the end of November last year, companies were urged to focus more on the "social and economic pillars of sustainability". The environmental aspect of sustainability is seen as being well settled now, so it is time to look more deeply at the impact of our industry in the communities where ingredients are sourced.

Also discussed at the summit was the notion that fair trade should not simply be a concept for developing countries. European, American and all other Western nations should be encouraged to apply fair trade processes to farming communities within their borders. It is natural that developing countries were the initial focus for fair trade, but there is no reason why the approach cannot be

taken elsewhere. After all, poverty is still a problem for rich countries, and fair trade may be one way of helping.

At the end of the summit during a panel discussion, one speaker came to the conclusion that it was no longer a question of whether or not a company engages with sustainability but rather to what degree. This is almost certainly true today, at least in the personal care industry, and it illustrates that the idea of sustainability has quickly become ingrained.

Whether this is out of concern for the environment or concern for long-term profitability matters little as long as the end result is the same.

Richard Scott
Editor

Award for anti-ageing active

Lonza has been awarded with the Gold Innovation Zone Best Ingredient Award for its ReGeniStem Red Rice at in-cosmetics Asia.

This sustainable anti-ageing active, derived from a meristematic culture of Himalayan red rice, finds application in skin care products. *In vitro* testing showed that the functionality of the ingredient comes from its ability to influence the epigenome of several genes important to skin

barrier. *In vivo* efficacy testing proved its ability to increase moisture in the skin while enhancing its overall appearance. It claimed the top spot for its high material efficiency, sustainability and innovation.

Dr Tim Schlange, head of personal care from Lonza, said: "We're delighted to have won this prestigious award. A great deal of hard work goes into researching and developing our ingredients

and so to gain recognition for our product from leading professionals within the industry is fantastic."

The new award which was been introduced last year recognises the development of a novel active or functional ingredient that combines innovative science and product features that demonstrate benefits to manufacturers and end-users when compared with existing ingredients.

Manufacturing facilities taken over by Cremer

Cremer, the Hamburg-based company, is to take over the Witten manufacturing facilities from their previous owner, Sasol Germany, after approval from the German Competition Authorities.

Cremer has been actively involved in the production and sale of oleochemical products for many years. For the company, the new contemplated acquisition is an ideal addition to the company's existing product portfolio in the pharmaceutical, cosmetics and food segments and the technical applications sector. The customer-relevant increase in competencies through the addition of more

than 250 specialised products leads to a sustainable consolidation of the company's position in a growing market.

The workforce of around 100 employees at the Witten facilities will be taken over by Cremer. Managing partner, Stefan Cremer, sees this step forward as a: "...meaningful and logical continuation of our international market presence in the oleochemical speciality-product segment."

The completion of the transaction is subject to the approval of the German Competition Authorities. Both parties have agreed not to disclose the terms of the contract.

Natural wax for beauty trends

Produced using a 'green chemistry' process and soybean oil, Dow Corning HY-3200 Emulsifying Soy Wax emulsifies and thickens at low use levels, supports consumer beauty trends for anti-ageing and sustainable products, and reduces the number of ingredients required, which presents a potential cost advantage.

"HY-3200 Soy Wax opens new possibilities in the growing trend for natural products used in face and neck lotions, creams and serums," said Sahoko Takeuchi, Dow Corning beauty and personal care marketing manager. "The challenge was finding a renewable material that would allow emulsification and thickening. It's difficult to achieve each one of those pieces individually. To get both of those in the same material is something that the industry doesn't have today. It's simple, stable and sustainable."

At lower use levels in formulations, Dow Corning HY-3200 Emulsifying Soy Wax can form a stable emulsion across a broad range of oils. The soybean oil, which contains a large amount of polyunsaturated fatty acid, is metathesised, hydrogenated and then modified by the addition of polar groups. The result is an emulsifying wax with thickening benefits in combination with a wide range of cosmetic oils which can create emulsions that are pH and electrolyte tolerant.

"While standard triglycerides have limited functionality, metathesised triglycerides provide an innovative architecture with the potential to enable reduced crystallinity, increased malleability and reduced brittleness," Takeuchi said.

The 'green chemistry' used to process Dow Corning HY-3200 Emulsifying Soy Wax is self-metathesis – a simple synthetic route pioneered by Elevance Renewable Sciences for expanding the use of renewable resources that offers options to modify natural lipids to create new benefits for personal care products. The process has higher reaction efficiency, reduced solvent waste and lower energy consumption as compared to petrochemical technologies.

German subsidiary changes

Lipotec announces with immediate effect both the appointment of JM Cabello as the new CEO for Lipotec GmbH, the company's subsidiary for the German, Austrian and Dutch markets, and the move of the office to Frankfurt.

Mr. Cabello joined Lipotec GmbH in 2010 as sales manager. He graduated in Business Sciences and has more than 10 years of experience within the chemical industry with responsibilities as sales director and as product manager, focusing on key accounts for German, Austria and Swiss markets.



JM Cabello.

Wolfgang Schueller, former CEO of Lipotec GmbH, has been appointed key account coordinator for Lipotec.

Due to the rapid growth of business and operations over the past two years, Lipotec GmbH moves to the new corporate office in Frankfurt. The new facilities will enhance operational efficiency and will help to support the partners' needs while reinforcing the company's commitment to Central Europe.

The new address of Lipotec GmbH, previously based in Düsseldorf, is: Nassaustrasse 3, 65719 Hofheim-Wallau, Frankfurt.

Marine tech investment

With a focus on strengthening its position in the development and commercialisation of active ingredients, Codif Recherche et Nature will be increasing investment in marine biotechnologies.

Codif Recherche et Nature has decided to support Polymar, a new Breton company

specialised in these technologies, by taking shares in its capital. This is part of an ongoing strategy from Codif Recherche et Nature, and is illustrated by the recent launch of two active ingredients derived from marine biotechnologies: EPS Seamat and EPS Seafill.

Active restores menopausal skin



Menopause is a crucial time in the skin ageing process. During this period, imbalances in female hormones lead to many skin-related disturbances manifested by a loss of elasticity, dryness and deepening of wrinkles.

To counteract this menopause-related hormonal ageing, Silab has developed Menofit, an active ingredient rich in purified artichoke leaf peptides.

Menofit acts on different levels:

- It normalises keratinocyte growth by restoring EGFR receptor expression.
- It maintains the structure of the dermal matrix by stimulating the synthesis of matrix components and limiting matrix breakdown.

With restored density and hydration, skin recovers comfort and suppleness and wrinkles are smoothed. The product can be integrated in all mature facial and body care.

Study confirms efficacy

To further support the prominent activity of Skinmimics, Evonik has performed a new study. Skinmimics is a unique, multi-lamellar delivery system based on high-tech biomimetic ingredients for improved bioavailability. It is a skin-identical composition made up of specific long chain ceramides, non-animal derived cholesterol and free fatty acid.

This composition is combined with unique signalling molecules (Sphingokines). The various ceramides contained in Skinmimics are based on Evonik's advanced and deep knowledge in this technology.

Earlier *in vitro* and *in vivo* studies have already shown that Skinmimics displays a three-in-one benefit, especially on mature skin. It provides protection by correction of membrane defects in the *stratum corneum* by topical application of skin barrier lipids.

Prevention, the second benefit, is shown by

the induction of skin lipid synthesis and epidermal differentiation for improved barrier function from within. Finally, Skinmimics stimulates and supports the epidermal renewal by activation of the skin's natural water management system. This leads to skin regeneration.

Now, an additional *in vivo* study using confocal Raman Spectroscopy fosters the previous findings. It could be shown that Skinmimics significantly replenishes skin's own protection barrier. Furthermore, this active is able to revitalise normal to dry skin by optimising the total epidermal moisturising system. Taking all study results into account, Skinmimics is an attractive ingredient for skin barrier protection formulations, skin regeneration and nourishing products. It fits very well with market concepts developed for mature skin.

Supply chain pledge

The recent events that have been documented in the news concerning breast implants is a current example of why Cornelius has created its "Cornelius Supply Chain Pledge".

This European raw materials distribution company has invested heavily into developing stringent procedures to ensure the quality of the materials Cornelius supplies. Managing director, David Brown, said to Personal Care Europe: "We insist on the highest standards of ourselves and our supply partners, so that our customers can buy with confidence. We check all our suppliers and validate their quality and systems to ensure that the goods we supply to customers are fit for purpose. The consequences of getting something like this wrong, are too devastating to individual consumers and companies involved, and we will never compromise on our high standards."

Under the Cornelius Supply Chain Pledge, all suppliers represented by Cornelius Group are selected according to stringent standards, have robust quality systems, are audited, and meet legal and ethical standards.

Wood extract range

Symrise has established a new branch within its Botanicals range – Actipone Woods. It comprises extracts from ash wood, honey locust wood, sweet cherry tree wood and walnut tree wood. Cosmetic products such as face creams, after-shave balms and shampoos benefit from their anti-ageing and smoothing properties.

Many people treasure wood for its aesthetic qualities. Beyond this, it also provides an amazing source of healthy constituents for beauty. Some woods contain anti-oxidant ingredients, such as tannins, flavonoids and phenolic acids. These can help to bind free radicals in our cells and thus show smoothing and anti-ageing properties. That makes them very beneficial for cosmetic products, since among other things they counteract the premature ageing of the skin.

Symrise now uses these properties for a

new branch of its botanical extracts – Actipone Woods. The series offers ingredients from ash, honey locust, sweet cherry and walnut. The latter also helps protect hair colorations. To prove their activity, all these ingredients have been *in vitro*-tested. Beyond this, they are easy to use in cosmetic formulations, soluble in water and compatible with usual cosmetic raw materials. This makes them interesting for cosmetic products such as creams, after-shave balms and shampoos.

To discover the power of woods the new collection presents various concepts matching each type of wood. Candy Wood uses the nourishing, rich, caring and luscious characteristics from honey locust. Holy Wood, alias ash, highlights skin force, tonic and strong bark. Fairy Wood conveys radiant beauty based on the attributes of sweet cherry. And Caring Wood is supposed to restore, protect, care and regenerate the skin with walnut.

VP appointed to Institute board

Miguel Peña, vice president, aroma chemicals, BASF SE, has been appointed to the RIFM (Research Institute for Fragrance Materials) board of directors.

Miguel Peña heads BASF's global business for aroma chemicals which is part of the company's nutrition and health division. With its Citral Value Chain, BASF is one of the leading producers and suppliers of aroma chemicals, such as geraniol, citronellol and linalool.

"I am honoured to serve on RIFM's board. The work RIFM does is essential to ensure the safe and sustainable use of ingredients in the flavour and fragrance industry", Peña said.

New results for actives

Greentech has announced new results for Silidine and Setiline. Silidine, a marine active, has a proved efficiency in vascular tonicity enhancement. Two new and particularly positive clinical tests show that Silidine decreases rosacea thanks to its vasoconstrictive action.

The results show that the use of Silidine on one of the volunteers during 28 days decreased face redness by 26%. In mean, the application of Silidine induced a significant decrease of 19% of rosacea on 86% of the volunteers.

It is important to mention that Silidine, an active for vascular tonicity in general, also

has a interesting action on heavy legs syndrome.

The active, Setiline, demonstrates anti-ageing properties thanks to its regenerating action on facial skin. Setiline keeps skin biomechanical properties as firmness, elasticity and flexibility. It also improves the global skin architecture and helps reduce wrinkles.

The latest clinical tests, as skin resistance measurement by cutometer, show that Setiline improves skin firmness in mean by 19% and elasticity by 28%. These results confirm that Setiline is a particularly recommended active in anti-ageing and regenerative skin face cares.

Peptide for colour fastness

Oat Cosmetics has launched an Ecocert accredited CP Sweet Blue Lupin Peptide, which has been shown to retain hair colour fastness for 30 washes and is equivalent in performance to many synthetic products.

In addition, tests show that the peptides coat and penetrate the hair shaft in one application, resulting in increased strength, less breakage through brushing and virtually no build up.

The 5% hydrolysed solution has been tested with a robust methodology which showed success even with notoriously fast-fading red dyes. The low odour, light coloured aqueous solution is ideal for hair care products requiring high levels of efficacy through natural ingredients.

New distributor for Europe

Eastman Chemical has decided to change the distributorship for its cosmetic, personal care and pharmaceutical range of products for Europe (except Switzerland, the Baltics and Finland). The new distributor for these products is Safic-Alcan.

Under the agreement, which is effective 1 January 2012, Safic-Alcan will offer Eastman AQ polymers, Eastman GEM 2-ethylhexyl palmitate, Eastman SAIB, Eastman Triacetin, Eastman CA/CAB/CAP, Foral hydrogenated rosins, Foralyn hydrogenated rosin esters, Regalite hydrocarbon resins and Eastman Hydroquinone, European Pharma Grade as well in the life sciences market in Europe.

Cassia paper receives prestigious award

The Lubrizol Corporation's Noveon Consumer Specialties announced that four of its chemists have been chosen to receive the prestigious Des Goddard Award. The annual award, which is presented by The Board of Directors of the Society of Cosmetic Chemists, recognises the most innovative paper on the topic of polymer science related to cosmetics or personal care presented at either the Annual Scientific Seminar or Meeting. Carole Lepilleur, Wing Li, Duane Krzysik, and the recently retired



Carole Lepilleur.

John Mullay, received the award for their paper titled, 'Cationic Cassia Polymers as Efficient Naturally Derived Polymers for Providing Enhanced Deposition from Shampoo Systems'.

The paper, which was presented at the

Society's 2011 Annual Scientific Seminar, examines the use of cationic cassia polymers as new and efficient aids to increase the amount of silicone deposited on hair during the shampoo cycle via the formation of coacervates. When formed during shampoo dilution, coacervates can effectively deposit silicone and other ingredients onto hair fibers. Cassia gum is a natural, vegetable-based carbohydrate extracted from the endosperm of the seed of cassia plants, which grow wild in tropical zones around the world.

Lepilleur accepted a scroll and \$2,500 on behalf of the authors at the Annual Scientific Meeting & Technology Showcase of the Society in December in New York City.

Acquisition of Polish fruit producer

Naturex, the French specialty plant-based natural ingredients company, announced it has reached an agreement with the Polish Industrial Development Agency to acquire 100% of the capital of ZPOW Pektowin SA, a Polish company based in Jaslo (South-East of the country), specialised in the production of apple and citrus pectins, fruit and vegetable juice concentrates and, for a smaller proportion, the preparation of processed food products.

This second acquisition of the year (purchase of Burgundy Botanical Extracts on 24 October 2011) fits in perfectly with the group's strategy to accelerate its international development, expand its product range and strengthen its

industrial presence, particularly in emerging countries.

Pektowin benefits from a high-capacity industrial facility dedicated to the production of apple and citrus pectins and located at the heart of one of the major region of raw materials used for the production of apple pectins.

Since the acquisition in December 2009 of the ingredients division of Natraceutical, Naturex is one of the seven manufacturers of pectins worldwide, with its plant located in Bischofszell (Switzerland). Integrating Pektowin within its scope will enable Naturex, not only to strengthen its manufacturing base in pectins, but also to benefit from a significant

scalability in order to best meet customer needs.

The acquisition of Pektowin also represents an opportunity for Naturex to gain a new production capacity in the field of juice concentrates. Indeed, Pektowin is one of the main Polish producers of fruit (mainly apples) and vegetable (especially red beets and black radishes) juice concentrates, and produces over 6,000 tonnes of concentrates each year.

This industrial facility will enable Naturex to broaden its product range to fruit and vegetable juice concentrates.

In addition this allows Naturex to benefit from high quality sourcing from local producers, in a wealthy agricultural area.