

# Whitening ingredient gets approval

The Chinese State Food and Drug Administration (SFDA) has approved Symrise's SymWhite 377 as an ingredient for cosmetic applications.

Thanks to the SFDA approval of SymWhite 377, Symrise now offers its successful and potent solution for brighter skin also for the Chinese market. SymWhite 377 has an excellent safety profile and provides visible effects in less than 14 days. SymWhite 377 can improve the appearance of dull complexions, can promote clarity and brightness, and provide a beautiful, uniform skin tone. Further, it can also diminish the appearance of dark facial hair. As a powerful anti-oxidant it delivers an added functional value.

SymWhite 377 can be used in a wide range of cosmetic applications such as face creams, BB

creams, anti-dark spot cream for hands, post depilatory cream ('bikini cream') and deodorant.

SymWhite 377 (INCI: Phenylethyl Resorcinol) is inspired from pinosylvin, a natural skin brightening compound occurring in pine. It was synthesised and screened for tyrosinase inhibitory activity as well as for antioxidant efficacy. In many *in vitro* tests SymWhite 377 was the most potent ingredient among all the compounds investigated. The tests also showed that the



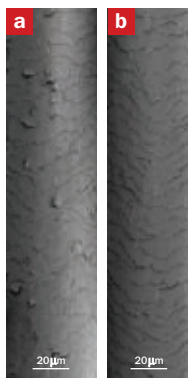
effect of SymWhite 377 was not due to cytotoxicity. Additionally it exhibits very potent antioxidant activity.

An *ex vivo* study using human full-thickness skin explants was used to evaluate the efficacy of SymWhite 377 in a more relevant situation and showed a significant improvement after 6 days. Finally, a clinical study with Asian subjects proved that 0.5% SymWhite 377 is a more effective solution for brighter skin than 1.0 % kojic acid.

## Hair shine active launched

Hair has become the 'must-have' fashion accessory for women. It is a great asset that can be used to create an impact with an infinite number of styling options. Using a combination of white and green technologies, Soliance has created 'the ultimate' shine active ingredient: Glossylance.

Composed of extracts of sugar cane and lemon zest extracts, obtained with a mix of alpha hydroxy acids, this delicate and natural blend is a veritable beauty enhancer for hair.



The hairs were observed along the distal zone under a Scanning Electron Microscope. As is shown in the images (placebo [a]), the use of a shampoo with 5% of Glossylance [b] smoothes the hair's scales.

A clinical trial was carried out on 80 volunteers. The effects of different products on hair shine were double-blind tested by a professional hairdresser using a point scoring system showing that Glossylance significantly increases hair shine.

## African distribution agreed

Arizona Chemical have reached an agreement with IMCD Group B.V. to further expand the distribution partnership for Arizona's refinery product lines to the African continent. This agreement follows on from the January announcement whereby Arizona Chemical appointed IMCD Group as their distributor for the refinery product lines in Western Europe.

As is the case for the existing contract, IMCD will assume responsibility for the commercial relationship, technical support and logistics for the customers it serves, enabling Arizona to focus on gaining a clearer understanding of customer needs and developing improved solutions to serve them.

Didrik von Porat, managing director of IMCD Nordic, comments: "We are delighted that Arizona Chemical have taken the decision to extend their partnership with IMCD to Africa. Not only will this agreement strengthen our already successful and valuable partnership with Arizona, but it will also allow IMCD to progress in its commitment to develop sales and achieve a more visible presence in Africa."

"Building on the successful distribution structure for our products in Western Europe, we are confident to add South Africa, Morocco, Algeria and Tunisia to the territories that IMCD currently cover for Arizona Chemical. IMCD's order handling, technical support and attention to consumer needs will allow us to grow further in these markets, and provide enhanced value and support for our customers," adds Juhani Tuovinen, Arizona Chemical's vice president Global Commercial.

### COMMENT

## Global issues from Paris exhibition

Last month's in-cosmetics exhibition in Paris was very much an international event. Though held in Europe, there was an impressive showing from regions such as South America and Asia Pacific, displaying the quality of their scientific expertise as well as the diversity and cosmetic potential of their native plant species.

During one of the presentations delivered by Euromonitor, there was a great deal of discussion on the subject of 'tailored solutions' for individuals through their personal care products. This is certainly something that consumers are increasingly starting to expect, with products designed for every conceivable

skin and hair type, alongside the growth of in-store machines that can determine a consumer's exact skin type.

Euromonitor also warned against the over-use of terms such as BB and CC, which can begin to dilute their meaning and lead to confusion. The speaker mentioned the use of the BB in a hair care product, which certainly seems to stretch the definition to breaking point. These products have been a huge success in Asia, and then become a global sensation, so companies need to ensure the meaning remains strong, keeping the trend afloat.

**Richard Scott**  
Editor

# Omega 3 from Amazonian oil

Unsaturated fatty acids are essential in skin. High content natural sources are limited but Greentech has been working for more than 10 years with Peruvian villages on the production of a cosmetic quality vegetable source of omega 3. The plant is *Plukenetia volubilis*. It is an endemic plant from Peru, which is now cultivated by more than 5,000 families in the Amazonian part of Peru.

In 2007, the plantation and the oil were certified organic with a guarantee of cosmetic

quality, and three versions are now available. Firstly, Sacha Inchi oil, which is raw oil directly delivered from fruit extraction. Then, there is Lipactive Inca Inchi, which is prepared for cosmetic application with extended time of use over 12 months. It carries no smell, and has a higher stability than raw oil. Greentech has shown



interesting cosmetic properties on skin and on hair, which justifies the commercial name 'Lipactive'. Inca Inchi is a trademark giving the guarantee of cosmetic quality. Finally, Greentech presents Soft Butter Inca Inchi, which is derived from Lipactive Inca Inchi with higher stability and a silky touch for cosmetic formulation.

## Cumin offers range of benefits

Natural Sourcing has announced the inclusion of cold pressed Organic Black Cumin Seed oil within its growing line of specialty oils for use in personal care product development. Host to over one hundred different vitamins, minerals, essential fatty acids and other constituents, the precious seeds and oil of black cumin have been used both internally and topically since ancient times.

Occasionally referred to as organic blackseed oil, the long folk history of Organic Black Cumin Seed Oil caught the attention of nutraceutical and cosmeceutical industries.

Organic Black Cumin Seed Oil absorbs quickly and is highly recommended for inclusion in moisturisers and hair care products where emolliency, antioxidative, anti-inflammatory and autoimmune system support are desired. Highly regarded for its ability to strengthen the immune system, Organic Black Cumin Seed Oil has been effective in treating autoimmune skin disorders including eczema and psoriasis.



## Exotic oil for anti-ageing

Natura-Tec has presented an exotic oil with multifunctional properties in cosmetic applications. From the company's plant in the Dominican Republic come Sapote Oil and Sapote Butter, which are extracted from the fruit of a tropical tree, *Pouteria sapota*, from the same plant family as argan. Defined as a bioactive ingredient, Sapote Oil is

particularly suitable for anti-ageing and moisturising formulations. It maintains skin elasticity due to its unique combination of triglycerides and unsaponifiable fraction. In hair care Sapote Oil is effective in stopping hair-fall caused by seborrheic dermatitis. The butter form adds rich emolliency to emulsion systems.

## Expansion for distributor

DKSH Business Unit Performance Materials announces considerable growth in the personal care industry in the US with important new partnerships and the expansion of its sales force.

Clariant, one of the world's leading specialty chemical companies based in Switzerland, and DKSH recently decided to expand their existing collaboration in Asia and join forces in the US, where DKSH provides Market Expansion Services for Clariant's Business Unit Industrial & Consumer Specialties, which includes preservatives, surfactants, rheology modifiers and polymers. These products are used in a broad range of skin and hair care products

and will be distributed by DKSH throughout the Midwestern US.

In addition, DKSH and Bluestar Silicones, a global silicones producer with over 50 years of expertise and a comprehensive portfolio have entered into a North American alliance that includes distribution to selected key accounts and regional distribution arrangements.

IBR, a producer of proprietary, natural active ingredients for cosmetics, food and pharmaceutical products, extended the existing relationship and DKSH was appointed to distribute its specialty patent protected technological actives to a selected key account in the US.

## Label for sustainable innovation

Clariant has announced its new EcoTain approach to sustainable innovation. The EcoTain life cycle and label developed by Clariant is driven by the commitment to protect human, environmental and ecological health without compromising on performance and efficiency.

The world population is growing, while the natural resources available for industrial use are limited. As the cost of raw materials has increased, the industry is under increasing pressure to find ways of using fewer raw materials and less energy. At the same time, a growing trend of eco-awareness among consumers

has developed and demand for more natural, sustainable products is strong.

EcoTain represents a systematic approach to sustainable innovation by providing a tangible means of understanding the ecological, economic and social impact of Clariant's products over the entire value chain. It also supports companies towards achieving their targets for sustainability.

Products in the Crop Protection and Paints & Coatings business lines have already been brought under the EcoTain umbrella; further business lines will follow. New sustainable ingredients are also currently in the pipeline.



# GMP certification for Japanese supplier

Nikko Chemicals, a Tokyo-based cosmetic ingredients supplier, obtained EFfCI's Good Manufacturing Practice (GMP) certification specified to cosmetic ingredients for the production facilities of its affiliated company, Nihon Surfactant Kogyo in Utsunomiya, Tochigi prefecture.

EFfCI (The European Federation for Cosmetic Ingredients) has developed this GMP Guide by using the IPEC-POG GMP for Pharmaceutical Excipients as a reference and adopting ISO 9001:2008 as a framework for the quality management system standard. Furthermore, the GMP includes some additional guidelines which the existing ISO9001:2008 does not cover.

Nihon Surfactant, a cosmetic ingredient manufacturer and a member of Nikkol Group (a group of seven companies), underwent detailed examinations by SGS, an EFfCI-recognised certifying body, and has been certified as meeting the requirements of EFfCI's GMP for the manufacture of its major products. This is the first time a Japanese cosmetic ingredients manufacturer obtained the GMP certification. The GMP Guide for cosmetic ingredients is known to have rigorous requirements and Nikko chemicals is the 18th company in the world to gain this certification.

In a certification ceremony held at the headquarters of Nikko Chemicals, Shigeru



Sekine, president of Nikko Chemicals (left) and Nihon Surfactant, received the certificate from Masahiro Soga, managing director of SGS Japan (right).

"Nikkol Group is proud of Nihon Surfactant being certified to meet the EFfCI's GMP Guide because to meet the stringent globally-accepted GMP implies the quality and safety of our major products. It will be of great help for us to inform customers inside and outside of EU that we manufacture quality cosmetic ingredients in a plant comparable to other certified manufacturers overseas," said Shigeru Sekine, president of Nikko Chemicals.

## Eco-designed ester launched

AAK Personal Care launched an innovative new ester last month. The eco-designed ester, called Lipex SheaLight, is an extension of the company's Lipex line of shea-based functional emollients, and is intended as a general-purpose emollient in a wide range of cosmetics.

In response to the global trend towards making skin care products lighter, particularly body lotions and facial care products, the new ester targets cosmetics brands that want to develop safe, stable formulations combining light, dry sensorial properties with a better sustainability profile. To produce esters requires an alcohol, and AAK has developed the new ester using alcohol made from renewable vegetable sources. In addition, the AAK esterification process uses less energy and more environmentally friendly catalysts than conventional direct esterification.

From a safety standpoint, Lipex SheaLight has been successfully tested for eye and mucous membrane irritation, as well as for skin irritancy and sensitisation potential. It has also been found to be readily biodegradable. Regarding sensory properties, an evaluation by a trained sensory panel confirms that Lipex SheaLight imparts a light and silky skin feel. Lipex SheaLight can be used alone or in combination with other esters, vegetable oils, shea butters, silicone oils and synthetic emollients.

## Multifunctional and skin care launches

ProSynergen DF, Lonza Personal Care's newest ingredient, addresses the concerns of compromised skin. This powerful active results from the fermentation of two microbes grown simultaneously, creating a competitive environment for survival. Healthy skin has intact barrier properties allowing it to recover and repair damaged cells through an on-going regenerative process. Intrinsic and environmental factors contribute to damaging

the epidermis, diminishing its ability to protect itself or hold on to moisture. Since skin is the body's first line of defence against any physical or chemical assault, strengthening barrier function is the primary means to improve compromised skin. By protecting the barrier, ProSynergen DF improves the look of compromised skin and reduces the appearance of signs of premature ageing.

Lonza Personal Care is also launching a

new natural ingredient, Natrulon GPS 341, which offers multiple functions in formulations. This unique cosmetic ingredient can be added as a natural fragrance in order to enhance the aroma of a formulation. In addition to this benefit, there is a secondary effect where the natural ingredients in this blend impart an excellent broad spectrum anti-microbial effect in the cosmetic product which is not seen independently by any of the ingredients.

## Sensitive scalp soothed

From environmental factors to aggressive hair dyes and unsuitable hair treatments, the scalp is subjected to multiple daily stresses that lead to chronic irritation. Tugging, itching and stinging sensations are reactions of discomfort revealing a delicate scalp.

Silab proposes Capicalm, an anti-irritant active ingredient rich in purified fumitory glycans to protect sensitive scalp. Through its soothing

action, Capicalm reduces the inflammatory reaction by limiting the release of key inflammation factors such as NF- $\kappa$ B and PGE<sub>2</sub>; and protects thereby against external stresses by calming irritation and itching induced by chemical hair treatment.

Combining protection and comfort, Capicalm can be added to all hair treatment products for weakened scalp.





# Innovation award winner

AkzoNobel's patented Zeta Fraction technology was one of the recipients of a 2013 China Personal Care & Cosmetics Innovation Award, under the category of Most Innovative Formulating & Processing Technology. The winners were announced at an awards ceremony held on March 13, in Guangzhou, China, during the 2013 Personal Care and Homecare Ingredients (PCHI) trade show.

"Zeta Fraction technology is a totally fresh approach to plant-derived bioactives. This innovative method for capturing the active ingredients in plants delivers several benefits that are not always obtained through

conventional plant extraction technology," said Heidi Lebel, global sales and marketing manager for AkzoNobel Personal Care Applications. Zeta Fraction technology uses living plants in a natural, sustainable process and can deliver a much wider range of bioactive cosmetic ingredients from live plants while capturing the synergy that exists within plant cells.

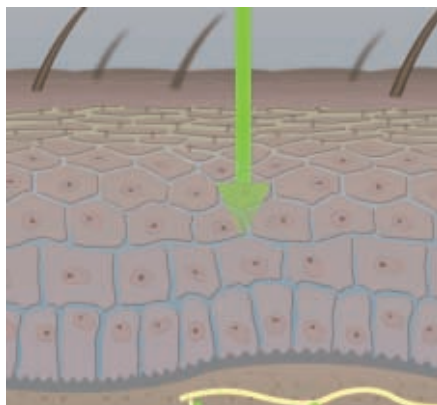
Zeta Fraction technology is solvent-free and uses the electrokinetic (zeta) potential of targeted cell juice fractions to further separate the active intracellular material derived from living plants. The resulting process is cleaner

and more sustainable. Zeta Fraction technology provides a more stable and reproducible product while preserving many of the existing benefits of living plants. In addition, this technology offers customers flexibility in their formulations and reduces solvent residue while increasing effectiveness.

"Zeta Fraction technology is an important example of AkzoNobel's focus on sustainability," says Lebel. "With no solvents, it produces more effective, stable and multifaceted ingredients for the personal care industry and for the benefit of the consumer. It allows nature's potential to be unlimited."

## Delivery system unveiled

Contipro Biotech introduced its new Delcore autologous delivery system at this year's in-cosmetics, Paris. It is a chemically modified hyaluronic acid capable of generating polymeric micelles, into which it is possible to incorporate other cosmetic actives. This means that Delcore can be used to deliver substances which otherwise find it hard to penetrate the *stratum corneum*. This will increase the efficacy of the substance transported or reduce the concentration of actives while retaining the same effect. Moreover, in *in vivo* and *in vitro* tests of Delcore, the unloaded carrier itself has also been shown to have a positive effect on the ageing skin.



## Deodorant stick platform granted inaugural award

DuPont Tate & Lyle Bio Products Company LLC announced the winner of the inaugural Zemea Innovation Award programme launched earlier this year. Knowlton Development Corp. (KDC) was selected as the winner for its patented Natural Zea deodorant stick platform.

Zemea propanediol is a natural, 100 per cent biobased ingredient made from corn sugar through fermentation and developed for use in the cosmetics and personal care market. It is a high-performance, environmentally sustainable alternative to petroleum-based glycols and glycerin, where the product's lack of skin irritation, improved moisturisation and excellent aesthetic properties are benefits. Zemea is approved as a natural ingredient by Ecocert and the Natural Products Association; is certified 100 per cent biobased by the US Department of Agriculture and has both Kosher and Halal certifications.

The Zemea Innovation Award programme is designed to recognise companies who have commercialised innovative cosmetics and personal care ingredients or finished products that contain Zemea propanediol.

"It is exciting to see the breadth of nominations submitted from around the world where Zemea is a critical part of the innovation achievements. KDC's developments with Zemea truly embody the spirit of the Zemea Innovation Award. Specifically, KDC started with targeted product claims built around the performance and sustainable attributes of Zemea which has resulted in this innovative natural deodorant offering," said Steve Hurff, vice president of marketing and sales, DuPont Tate & Lyle Bio Products.

## Silicones meet desire for tailored hair products

Whether it is flow-and-comb, the Caesar, high-and-tight, or a pompadour, men are increasingly turning to hair care products designed specifically for their unique styles and needs.

"Individuality, growing consciousness of their appearance, and even increased disposable income in emerging geographies are key trends driving an increase in men's hair care product sales," said Kevin Murphy, a global product market manager for the Xiameter brand from Dow Corning.

Global Industry Analysts estimates the global male grooming products industry will grow to \$33 billion in sales by 2015, while Euromonitor International predicts global retail sales of hair care products will reach \$84.3 billion by 2015, led by shampoos and conditioners. Approximately 60 per cent of the 10,000-plus new products per year during that period will contain at least one silicone material, often more in the case of conditioners, Murphy said.

"Silicones have properties that not only condition hair, they can be used to add shine, make combing easier, enhance hair strength, moisturise, define and add volume," said Murphy.

Because of the trends that portray their individuality – as well as manage specific grooming challenges based on their hair type, condition and desired style – the concept of products tailored 'just for me' has taken hold. Dow Corning says that silicones can offer solutions tailored to the individual variety of wants and needs associated with men's ideal hair care regimens.

"Scientifically, hair care formulators need to develop products that satisfy the needs of diverse hair types, ethnicities, cultures and regions. But culturally, they also need to accommodate men's need to look vigorous and youthful," Murphy said. "Now more than ever, there is no one-size-fits-all when it comes to hair care products."