

Much new presented at Munich show

New concepts and products presented at the in-cosmetics show held in Munich, Germany, in April, were extremely numerous, and here described by category is an extensive selection.

Anti-ageing

Chromocare (Sederma). An active substance which associates two plant extracts to form an anti-ageing skin care based on chromophore mapping. Normal human skin appearance to the eye under visible light (400-700 nm) is mainly driven by the concentration and distribution of melanin, haemoglobin and collagen. Noticed is a strong difference in the concentration and homogeneity of these chromophores between young and aged skin. It specifically targets each chromophore in order to confer the skin with a fresher, younger look. It reinforces the structure of the molecules and has an action on inflammatory mediators and free radicals and a direct effect on pigmentation. Chromophore mapping revealed a significant decrease in redness and brown spots and improvement in collagen homogeneity.

Sambrani Extract (Alchem). INCI name: Sambrani. Improves skin firmness, prevents premature ageing.

EpiCalmin TCM (Mibelle). INCI name: *Lonicera japonica* flower extract/*Lonicera japonica* (honeysuckle) flower extract (and) *Xanthium sibiricum* fruit extract (and) *Cyperus rotundus* root extract (and) sodium benzoate (and) aqua/water. EpiCalmin TCM combines 3 different plants which were selected according to their strong soothing activity long known in TCM. The mechanism of activity for this specific plant combination was demonstrated by gene array analysis and its efficacy proved by *in vivo* studies.



Results showed that EpiCalmin TCM effectively reinforces the skin's self-protection against dehydration, oxidative stress and also degradation of the extracellular matrix. Thus EpiCalmin TCM, which is Ecocert approved, actively protects the skin and prevents premature ageing.

Homeostatine (Provital). INCI name: *Enteromorpha compressa* extract, *Caesalpinia spinosa* gum. Homeostatine is a combined active ingredient composed of a marine fraction and a plant polysaccharide. It rejuvenates the skin by reducing wrinkles and increasing skin firmness, moisture and elasticity. Sequential release system. Increases synthesis of collagen I and III, increases skin thickness, increases the elastic fibres, increases glucosaminoglycans, reduces

metalloproteinases and inhibits the IL-1 α stimulus.

Kalpariane (Biotech Marine). Anti-wrinkle and replumping effect, remoisturises and revitalises the skin providing suppleness and elasticity. Helps to prevent stretch marks and wrinkles.

Resveratrox Powder (Breko GmbH). INCI name: Inulin, *Vitis vinifera* [grape] vine extract. Resveratrox is a grapevine shoot extract from the plant species *Vitis vinifera* which is exclusively cultivated from vines of the area Bordeaux, France. Resveratrox increased the sirt-1 expression in the aged fibroblasts with a dose-dependent response. During skin ageing, certain numbers of biological markers decrease. An *ex vivo* test demonstrated that Resveratrox corrects this disordered state on four skin-ageing markers and indicated that Resveratrox corrects the decrease of sirt-1 expression in fibroblasts during ageing.

Phytosan K (CLR). INCI name: Water, glycerin, glycine soja (soybean) seed extract. Proteins, glycoproteins and polysaccharides isolated from soybeans. Fights the signs of biological and UV-induced skin ageing. Acts as a biological sun protection factor by vitalising the skin's own UV protection. Helps to prevent DNA damage due to UV. Stimulates regenerative functions of the skin and thereby improves skin firmness and structure.

Phytessence Holyherb (Crodarom). INCI name: Butylene glycol, *Eriodictyon californicum* (hollyherb) flower/leaf/stem extract. Its evergreen leaves are covered with a resin which protects the plant from the sun, thanks to its rich flavonoid content, which is mainly comprised of homoeriodictyol and eriodictyol. It is useful for anti-ageing face care, day care focusing on "anti-stress", sun and after sun care, anti-pollution skin and hair care, protective body lotion, and wellness treatment.

Pomegranate Seed CO₂ extract (Flavex). INCI name: *Punica granatum* (pomegranate) seed extract. Fatty oil with more than 60% puninic acid (C18:3 w5), a valuable conjugated linolenic acid (CLNA). The extract contains tocopherols, sterols and a small amount of squalene.

Natural highlights

Among highlights from Cosmetochem were Outback Spirit Botanicals, which use indigenous Australian plants sourced from an ethical supply chain; concentrated glycerine-based extracts from a merlot grape variety sourced in Switzerland; and a new range of preservative-free extracts formulated with Ecocert-certified organic glycerine and organically certified plants.

Application: in cosmetic products it is used for promoting skin regeneration, stimulating self repair mechanisms, improving skin elasticity, reducing wrinkles and as prophylaxis against skin ageing; calming and healing properties in cases of irritated, dry, sensitive, allergic and itching skin.

TopicPure Schisandra Berries (Frutarom). It is protecting to mitochondrial activity to maintain activity and slow ageing.

SalSphere Resveratrol (Salvona). INCI name: Water (and) synthetic wax (and) resveratrol (and) hydroxyethyl behenamidopropyl dimonium chloride (and) Polyquaternium-67 (and) phenoxyethanol (and) ethylhexylglycerin. The submicron spheres comprising resveratrol are hydrophobic and thus become associated with the proteinaceous portion of the skin or hair and improve the deposition of resveratrol onto skin and scalp. This technology prevents it from being washed off during rinsing and sustains the release of resveratrol, thereby enabling the release of the active over 3 hours. SalSphere resveratrol is the product to use when stable resveratrol [no discoloration] is needed for a water-based emulsion, enhanced bioavailability, and to deposit more on hair, skin, and scalp.

Chondricare IS (ISP Vincience). INCI name: Water (aqua) (and) butylene glycol (and) pentapeptide. This new biofunctional ingredient is a synthetic pentapeptide that functions as a mimetic of the protein aconitase – a critical functional element of human cells that both stimulates cell metabolism during the Krebs cycle and protects mitochondrial DNA (mtDNA) from oxidative damage – such as that caused by UVB radiation. By increasing the aconitase enzymatic activity in cells, Chondricare IS can help counteract the slowing of cell metabolism and help prevent mitochondrial DNA damage, both of which have been observed as conditions of the ageing process. It is used as an ingredient in anti-ageing formulations to protect mtDNA, in daily formulations to protect skin from UV-induced mtDNA damage and in night formulations for the regeneration of cell energy levels.

Zenicyl (Silab). INCI name: *Panicum miliacenum*. It restores normal expression of ageing and stress markers, corrects the impact of emotional stress on skin quality. On young skin, it illuminates the complexion; on aged skin, it visibly reduces wrinkles, restoring 60-year-old skin to be characteristic of skin 15 years younger. An active ingredient rich in oligopeptides from germinated millet seeds.

SymVital (Symrise). INCI name: *Aloe barbadensis* leaf juice powder, magnesium ascorbyl phosphate, *Rubus idaeus*

Array of advanced products

A functional silicone fluid substitute, Lipo SFS-5 was promoted by Lipo Chemicals.

The product is a non-silicone replacement for cyclomethicone D5 and the fluid solution gives the same performance features without the adverse effect of volatile silicone fluid.

Having an elegant skin feel and fast absorbency, Lipo SFS-5 is a safe, non-whitening emollient blend ideally suited to use with a variety of cosmetic products including those for hair treatment and conditioning, skin care, shaving and hair removing, and sunless tanning.

Lipo Chemicals was also drawing attention to its Vegetable Ivory, Lipo VI 40/60, a new natural exfoliant derived from the seeds of the palm *Phytelephas macrocarpa*, commonly known as Tagua nuts; Lipobutter emollients made from natural plant sources rich in essential fatty acids; Lipolight OAP (Optically Activated Particles) that is a luminescent ingredient which emits and diffuses visible light to dramatically reduce the appearance of skin imperfections; and Hylasome EG10, a chemically crosslinked hyaluronic acid derived from a non-animal source and providing, due to its exceptionally high water-binding capacity, excellent moisturising performance.

(raspberry) leaf extract. Highly effective anti-ageing complex that has shown 250% endogenous GAG increase and 80% endogenous collagen enhancement.

Antioxidants

Revital Plus SG (Natural Solutions).

INCI name: *Alpinia officinarum* root extract. Shows excellent efficiency in calming the skin in addition to good antioxidant activity which acts against skin ageing. It is said to restrict the generation of melanin and may be helpful in melasma.

NanoVit (Mibelle). INCI name: NanoVit oA (alcohol-free): lecithin (and) *Hippophae rhamnoides* oil (and) tocopherol (and) glycerin (and) sodium benzoate (and) aqua/water. NanoVit combines antioxidant activity with a regenerative effect. Thus, it can prevent lipid peroxidation while improving the skin metabolism resulting in a healthy-looking skin. (NanoVit is Ecocert approved and is available in 2 versions: NanoVit oA: alcohol-free and NanoVit nc: preservative-free).

UTiRose (Burgundy Botanicals). INCI

name: *Hibiscus sabdariffa*. The best efficiency of specific and selected polyphenols from *Hibiscus sabdariffa* (Roselle). These materials give not only colour and flavour, but also antioxidant properties. Specific flavonoids, protocatechuic acid, specific sambubioside anthocyanins, proanthocyanidins (red – dark red natural colour).

Dermofeel Toco 70 non-GMO (Dr Straetmans). INCI name: Tocopherol. Mixed tocopherols are derived from certified non-GMO soy plants and are especially rich in D-γ- and D-δ-Tocopherol. In comparison to pure vitamin E these two tocopherols exhibit superior activity against oxidative degradation of cosmetic formulations. In combination with the synergist Dermofeel Ascorbyl Palmitate a reliable stabilisation against rancidity can be ensured in the most natural way.

Rosemary antioxidant extract (Flavex). INCI name: *Rosmarinus officinalis* (rosemary) leaf extract (and) *Helianthus annuus* (sunflower) seed oil. The product has antioxidant, antimicrobial and anti-inflammatory property; for retarding oxidation of fatty oils, carotenoids and essential oils.

AA2G (Ascorbic Acid 2-Glucoside) (Hayashibara). INCI name: Ascorbyl glucoside. It is natural vitamin C (ascorbic acid) stabilised with glucose. This combination allows the benefits of vitamin C to be conveniently and effectively used in cosmetic products. When products containing AA2G are applied to the skin, an enzyme present in the skin, α-glucosidase, acts on the AA2G to slowly release the healthful benefits of vitamin C. It was originally developed as a quasi-drug cosmetic product in Japan to lighten the overall tone of the skin and reduce the pigmentation in age spots and freckles. It also brightens dull looking skin, reversing the effects of ageing, and



Merck was promoting a galaxy of shimmering cosmetic pigments. Versatile colour effects – available in shades from silver to green and everything in between – can be subtle or wild, lustrous or with diamond-bright glitter.

is used in sunscreen products for protection.

Pomaceo CQR (Val de Vire (Tri-K)). INCI name: *Pyrus malus* (apple) fruit extract. Antioxidant apple extract rich in quercetin (flavonols) and in phloridzin (dihydrochalcones), in a spray powder form. Made up of highly-concentrated apple antioxidants, the Pomaceo product range provides benefits such as anti-ageing, anti-inflammatory, skin firming and smoothing, slimming and UV protection.

Anti-wrinkle

Thalassine 2 (Biotech Marine). INCI name: *Tripleurospermum maritima*. Has a relaxing effect and helps to prevent fatigue marks and expression lines. Myorelaxing, replumping and protecting.

Timeless No. 4 (Natural Solutions). INCI name: *Alpinia officinarum* root extract, *Terminalia chebula* fruit extract, *Paeonia suffruticosa* root extract, *Dryopteris crassirhizoma* root extract. A blend of different ingredients with a synergistic effect against wrinkles that inhibits the generation of collagenase.

Phycosaccharide AI (Codif). INCI name: Water (and) hydrolysed algin (and) propylene glycol (and) phenoxyethanol (and) chlorphenesin (and) methylparaben. During skin ageing, the formation of wrinkles and lines involves the same process as during an injury. Phycosaccharide AI may therefore be used to stimulate the activity of epidermal stem cells and their role in the reconstruction of the epidermal matrix. Once the skin has been reconstructed, wrinkles and lines are filled in and smoothed out.

Alguard (Frutarom). INCI name: *Porphyridium polysaccharide*. It is a purified



and standardised bio-exudate of red microalgae and has a multifunctional skin active shield with skin immune photo-protection effect. It reduces fine line length, depth and overall wrinkle appearance as well as reducing skin roughness.

Tego Pep 4-17 (Evonik). INCI name: Tetrapeptide-17, glycerin, butylene glycol, aqua. It is a collagen boosting bioactive for anti-ageing formulations and is a novel bioactive and pure tetrapeptide with anti-ageing properties. It activates collagen production and therefore stimulates dermal filling, repair, and renewal mechanisms of the skin. Tetrapeptide-17 is based on the skin's own structures. Formulations lead to an increased elasticity, a decreased volume of wrinkles and fine lines as well as a reduction of skin roughness.

Butters

BioChemica has a range of unmodified butters such as Cocoa Butter [*Theobroma cacao* {cocoa} seed butter], Cupuaçu Butter [*Theobroma grandiflorum* seed butter], Illipe Butter [*Shorea stenoptera* seed butter], Kokum Butter [*Garcinia indica*

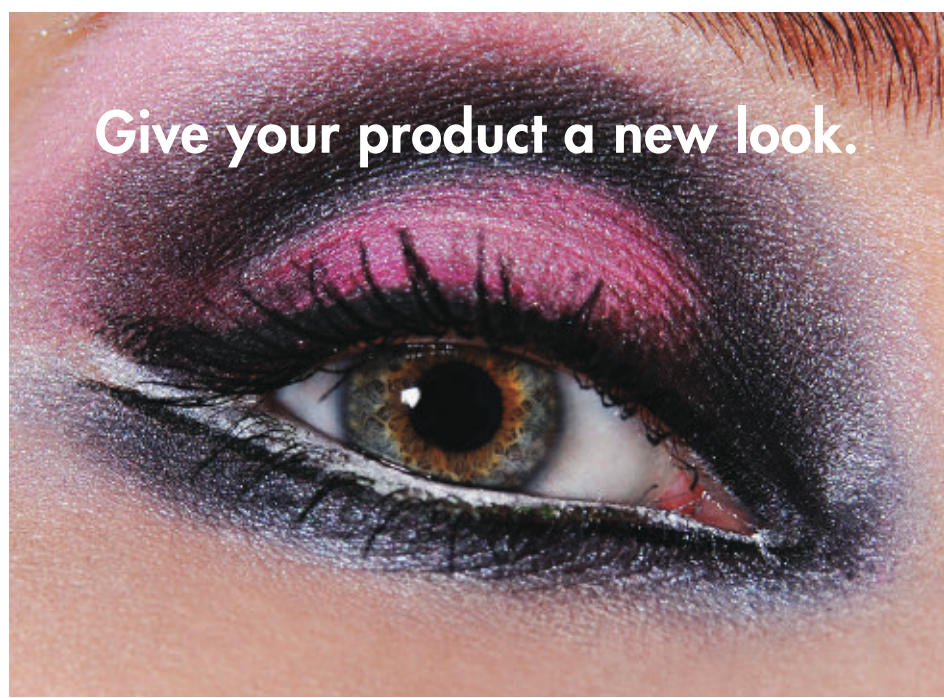
seed butter], Mango Butter [*Mangifera indica* seed butter], Mowrah Butter [*Bassia latifolia* seed butter], Murumuru Butter [*Astrocaryum murumuru* seed butter], Shorea (Sal) Butter [*Shorea* (Sal) butter], Shea Butter [*Butyrospermum parkii* (shea butter)], Tucuma Butter [*Astrocaryum tucuma* seed butter]. Blended in hydrogenated vegetable oil to produce butter-like materials there are: almond, avocado, brazil but, chamomile, coffee, hemp seed, horsetail, jojoba, lavender, lemon, lemon grass, lime, macadamia seed, matcha green tea, olive, orange, pistachio, pumpkin seed, soy and tangerine.

Deodorant

Deosent (Tri-K). Deosent is a natural, safe and effective solution to odour control based on fermentation technology and is a water-soluble liquid derived from vegetable feedstock. The enzymes present provide bioconversion of a wide range of malodorous substances. There is effectiveness on amines, mercaptans, esters, aldehydes, thios and alcohols.

Emulsifiers

Hitecream 3000 (Sinerga). INCI name: *Potassium palmitoyl* hydrolysed oat protein, behenyl alcohol, palm glycerides, sodium stearoyl glutamate, sucrose palmitate. This is a unique emulsifier that enables cosmetic chemists to create soft touch formulations – even those rich in vegetable oils. Hitecream 3000 is said to be very easy to formulate and handle. It has applications in fluid emulsions (o/w), fluid emulsion as base before pre-make-up, cream gels for heavy legs, day creams



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with vitamins, and sun care formulas.

Akoline LC (AarhusKarlskrona). INCI name: Glyceryl stearate citrate. Akoline LC is an anionic emulsifier for skin care creams and lotions. It is a partially neutralised citric acid ester of mono/diglycerides, making it dispersible in water and suitable for cold processing applications. It releases citric acid by hydrolysis on skin contact, supplementing the Natural Moisturising Factor (NMF). Citric acid esters such as Akoline LC have well documented skin firming and smoothing properties. The released citric acid also stabilises the skin pH value by the buffering action of citrates.

Hostacerin SFO (Clariant). INCI name: Sunflower seed oil sorbitol esters. This is a sunflower-oil based emulsifier for creams, lotions and sun care products produced via an energy-saving process. It is made from high oleic sunflower oil via a single step, low temperature oil process that leads to reduced CO₂ formation. The sunflower oil-based emulsifier is manufactured by transesterification – a low-energy consuming process using natural ingredients that has an operating temperature almost 50°C lower than other esterification procedures. Ecocert approved.

Protelan ENS (Zschimmer & Schwarz). INCI name: Glyceryl stearate, cetearyl alcohol, stearic acid, sodium lauroyl glutamate. Ecocert approved. Very versatile emulsifying wax, emulsifying capacity not depending on the polarity of the oil phase and therefore appropriate for mineral oil, vegetable oil, silicon oil, esters, etc. Supplies an attractive creamy structure and glossy surface of the cream, and positively influences the feeling of the skin.

Endorphins

Happybelle-PE (Mibelle). INCI name: Lecithin (and) *Vitex agnus-castus* extract (and) glycerin (and) ascorbyl tetraisoalmitate (and) caprylic/capric triglyceride (and) cyclodextrin (and) alcohol (and) aqua. New cosmetic science showed that β -endorphins play an important role in the vitality and appearance of the skin. These “happy-molecules” make the skin look luscious and more radiant. Happybelle-PE contains a phyto-endorphin extract based on Monk's Pepper combined with anti-oxidant and moisturising factors encapsulated in an ultra penetrating double vector system.

Happy Skin (Provital). INCI name: Glycerin, water (aqua), *Rhodiola rosea* root extract. The skin contains large amounts of endorphins, known as “the chemistry of happiness”. Happy Skin is a natural product produced from Arctic rose. It increases the endorphin levels, thus providing wellness and pleasure,

Reinforcing skin's natural defence

Lipotec introduced Bodyfensine, a new tripeptide for cosmetic applications that protects skin from external microbial invasion and lowers the risk of infections.

Bodydefensine allows stimulation of β -defensin to expand the innate epithelial shield and avoid microbial aggression. Therefore, this new product maintains the balance between commensal microbes and pathogens in the skin. The new tripeptide lowers the risk of possible infections by external agents, such as in acne-prone skin.

The activity of Bodyfensine was determined at the transcriptional level, by measuring its ability to promote the expression of hBD-2 mRNA in human keratinocytes. The result obtained validates the peptide activity as hBD-2 booster. Bodyfensine was able to induce a 10% increase in the hBD-3 protein levels in human keratinocyte cultures, proving a controlled increase in the amount of hBD-3 secreted protein.

qualitatively enhancing the appearance of skin and even improving the mood. Ability to induce the synthesis of β -endorphins, thus stimulating central and peripheral receptors and improving mood and general health.

Euphoryl Ω -3 LS 9846 (Laboratoires Sérobiologiques). INCI name: *Plukenetia volubilis* seed oil (and) *Schinus terebinthifolius* seed extract. There is a link between the innovative “happiness molecule” dopamine and the appearance of the skin. Dopamine is known to be involved in feelings of happiness and pleasure, but it also improves microcirculation and brings colour to the cheeks. It is a mix of Sacha Inchi oil, which is very rich in Omega-3 and *Schinus terebinthifolius* (pink pepper) extract, a stimulant and invigorating agent with warm and sensual perfume notes.

Hair

Pomaceo WAP (Val de Vire (Tri-K)). INCI name: *Pyrus malus* (apple) fruit extract. Whole polyphenols extract from apple, in a spray powder form. The Pomaceo ingredients are 100% natural apple extracts, containing no preservatives. Additionally, the polyphenols found in cider apples are known to act as a natural hair loss remedy.

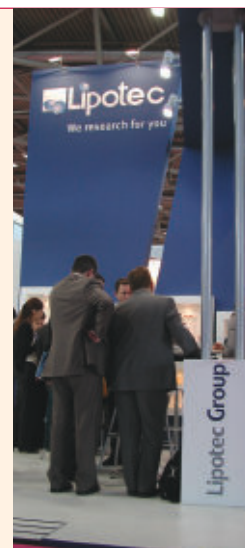
5-7113 Silicone Quat Microemulsion (Dow Corning). INCI name: Silicone

quaternium-16 (and) undeceth-11 (and) butyloctanol (and) undeceth-5. Provides heat protection, colour lock from rinse-off conditioners, extra body and volume as well as enhanced hair strength. In addition it will bring wave enhancement, has good wet detangling and dry detangling properties in use. It can be used in clear formulations.

Luvigel Advanced (BASF). A polymeric thickener for hairstyling products and is a new multifunctional styling and conditioning cationic rheology modifier, providing thickening, conditioning and advanced setting properties. It produces a strong hold when combined with other styling polymers, even at high humidity. Gels are easy to apply, offer the ability to re-style the hair and result in a pleasant sensory feel of the hair. Due to its cationic nature, the product provides conditioning, eliminating the need of additional conditioning polymers. The hair remains easy to comb no matter if curly, wet or dry. The boosting effect allows the use of less styling polymer without negatively affecting the conditioning performance and so flaking is reduced.

Sea Satin (Biotech Marine). Hair treatment from root to tip. Anti-inflammation, free radical scavenger, cellular anti-ageing (bulb and scalp), blood flow regulation, prevention of bulb oxidation and prevention of bulb degradation. It provides easier combing of wet hair, leaves a silky feeling, makes hair softer and shinier and adds volume to hair.

Kerabase (Inolex). INCI name: *Brassica* alcohol (and) brassicamidopropyl dimethylamine (and) polyester-11 (and) aspartic acid (and) EDTA. It is a complete conditioning base designed for performance and ease-of-use and composed of a fatty alcohol for superior aesthetics and conditioning polyesteramine for emolliency and gloss. A conditioning formula can be made by combining Kerabase with



emollients, water and preservative (as well as any label-claim actives) and the final result has exceptional combability and detangling performance as compared to commercial conditioning formulas.

Dermofeel P-30 (Dr Straetmans). INCI name: PCA glyceryl oleate. Hair washes and treatments lead to a constant erosion of the lipid layer which covers the hair cuticle and results in hair that is coarse, less shiny and difficult to comb. Dermofeel P-30, with its surfactant-like structure, combines natural glyceryl monooleate with pyrrolidone carboxylic acid (PCA) deriving from natural glutamic acid. Mediated by its amide group, it is able to attach to the hair's cuticle and to renew the lipid layer that has been washed away by hair treatments. Like classical conditioning agents, it reduces the combing resistance in wet hair. An alternative to quats perhaps.

Plantasil Micro (Cognis). INCI name: Dicaprylyl ether [and] decyl glucoside [and] glyceryl oleate. This is a solution for "green" shampoos with good conditioning properties. This easy-to-formulate transparent microemulsion, based on a surfactant-oil system, is highly compatible with a wide range of surfactants. It enables formulators to develop vegetable-based shampoos with conditioning performance. As such, it helps manufacturers serve the growing "green" trend in the shampoo market and may be cold mixed.

Baycusan C 1001 (Bayer) dispersion was developed for hairstyling and curls keep their shape very well despite any mechanical influences, even in high humidity, and less combing force is required than with untreated hair.

Moisturisers

Trimoist (Mibelle). INCI name: Sodium stearyl lactylate (and) cetyl alcohol (and) vegetable oil (and) tocopheryl acetate (and) *Glycine soja* (soybean) sterols (and) glycerin (and) sodium carboxymethyl betaglukan (and) sodium lactate (and)

'Real gold' effect realised

Among innovative products highlighted by Eckart was Mirage Sparkling Luxury Gold which represents a new generation of gold effect pigments for cosmetics and personal care. A "real gold" effect has been realised.

Based on calcium sodium borosilicate coated with titanium dioxide and iron oxides, this pigment exhibits outstanding colour strength and purity.

The achievement of this milestone in effect pigment technology was possible due to Eckart's capability to create extremely smooth pigment surfaces that allow optimised gloss and unique colour purity. With its particle size of 15 µm to 120 µm, Mirage Sparkling Luxury Gold provides exceptional sparkle effects as well as colouring effects which can be used pure or in combination with other pigments to enhance, especially, colour cosmetics with a luxurious look.



carnosine (and) phenoxyethanol (and) methylpara. A highly effective hydrocomplex that perfectly supports the three elements of the skin's own moisture balance system, namely film-forming polysaccharides to protect the skin, lamellar lipids to boost the moisture barrier and humectants to provide an instant burst of hydration. Plus, the moisturising active contains a dipeptide to prevent the cross-linking and stiffening of collagen by glycation. Trimoist is a 3-step moisturising system to keep skin at its best.

Hyalurosmooth (Laboratoires Sérobiologiques). INCI name: Water (and) *Cassia angustifolia* seed polysaccharide. It is a botanical alternative to hyaluronic acid and made of polysaccharides extracted from the seed of an Indian plant, *Cassia angustifolia*, which forms a protective film on the skin that strongly binds water and fills in fine lines. It provides intense moisturisation, while plumping up the skin, which further helps to reduce fine lines and wrinkles and to smooth the skin's surface. The smoother surface means that light reflection is improved and so is skin radiance.

Cohesium (Silab). INCI name: Water and *Ophiopogon japonicus* root extract. Cohesion of the various epidermal layers is vital for barrier function and reduced TEWL.

The success of the skin's barrier function has been attributed to the *stratum corneum* with a "bricks and mortar" structure. However, it has recently been accepted that tight junctions also play an important role in homeostasis of that function. They ensure adhesion between the keratinocytes of the *stratum granulosum* and regulate the permeability of paracellular spaces and therefore help maintaining moisturisation of the various layers of the epidermis. Compounds in the NMF (Natural Moisturizing Factor) especially lactates, help to regulate pH, an important parameter that partially influences the integrity and cohesion of the *stratum corneum*. Cohesium is an active ingredient purified from the tubers of ophiopogon – also known as Japanese lily turf – a plant that can withstand drought due to the presence of water binding mucilage in its tubers. Cohesium triggers the formation of tight junctions and increases the levels of NMFs in the *stratum corneum*.

Hydromanil (Provital). INCI name: Water (aqua), glycerin, hydrolysed *Caesalpinia spinosa* gum, *Caesalpinia spinosa* gum. Hydromanil is an innovative moisturiser, which captures and retains water and assimilates it into the skin in an immediate and natural way. It contains galactomannan and galactomannose oligosaccharides (5% to 7%).

Trehalose (Hayashibara). INCI name: Trehalose. Trehalose is readily soluble and provides moisture retention and protein protection when used in skin and hair care products. Trehalose can also improve product shelf life, due to its ability to inhibit the formation of any volatile aldehydes caused by the breakdown of fatty acids.

Cleomilk (Rahn). INCI name: *Sesamum indicum* seed oil, aqua, glycerin, sucrose stearate, *Nigella sativa* seed oil, glyceryl caprylate, *Aloe barbadensis* leaf juice powder, xanthan gum. Cleomilk is based on the well-known, positive principles of this natural product, but the elements of the classic milk have been replaced by plant-

Completely clear isethionate ester

Innospec was drawing attention to Iselux, a revolutionary new isethionate ester for personal care products.

Unlike other isethionate technologies on the market, Iselux is completely clear yet still allows formulators to create exceptionally elegant products that reproduce the lathering feel of a luxury beauty bar. At the same time, this innovative sulfate-free surfactant is mild and kind to the skin.

Iselux is expected to be used in ultra-mild clear shampoos, shower gels, hand and facial cleansers and luxury foam bath products. It can be used as either a primary or secondary surfactant and it is ideal for formulating products that require dense, luxurious and long-lasting foam with an elegant after-feel.

The foam produced is comparable to that of sodium cocoyl isethionate (SCI) in that the bubbles are very dense and equivalent to sodium lauryl ether sulfate (SLES) in terms of flash foam and foam stability. The Iselux technology ensures the cleansing product rinses away easily and is not sticky when dry, leaving the skin feeling smooth.

based constituents and include organic black caraway oil, organic sesame oil and organic *Aloe vera*. Prevents dehydration and lowers transepidermal water loss (TEWL). Counteracts skin de-lipidation when washing and promotes re-lipidation. It accelerates the regeneration of the skin barrier.

Irwinol LS 9890 (Cognis). INCI name: Octyldodecanol (and) *Irvingia gabonensis* kernel butter (and) hydrogenated coco-glycerides. *Irvingia gabonensis* is a tree that grows in the tropical and subtropical forests of Central and West Africa. Its fruits resemble small mangoes and this leads to the common name "wild mango tree" or "African mango tree", even though it does not belong to the same botanical family as the cultivated mango. Irwinol contains a lipid extract from the kernels, mainly consisting of triglycerides of myristic and lauric acid, with a minor unsaponifiable fraction of sterols and tocopherol. It shows an excellent spreadability and leaves the skin feeling soft and supple. Its moisturising properties were shown to be superior to those of shea butter. On hair it also outperformed shea butter in a test on the improvement of hair combability. In addition it was found to improve the sensorial benefits of damaged hair. It is the tropical solution for moisturisation and repair of dry skin and lips.

Quinoa Pro (Tri-K). Quinoa is a good source of protein and exhibits a high amino acid content. Quinoa also has an alpha-tocopherol content greater than



Anti-ageing emphasis

Jan Dekker launched two new active ingredients: Glycoin Extremium, a powerful anti-ageing ingredient based on nature's own survival strategies and Nikkol LPA, a new concept in anti-ageing developed by Nikkol Group, Jan Dekker's partner.

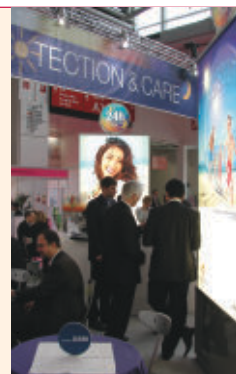
Glycoin Extremium increases the stress resistancy of skin cells, and is therefore regarded as a suitable and extremely effective component in skin rejuvenation. Skin tolerance is high.

The Nikkol LPA (lysophosphatidic acid) concept visibly reduces pores thanks to a stimulating action on cell differentiation and hydration conditions. LPA exists in human skin and is an essential element of the cell membrane because it promotes healthy epidermis development. Nikkol LPA contains a high concentration (20% to 30%) of LPA which is capable of enlarging Ca^{2+} intake channels, letting more Ca^{2+} inside the cells and improving corneocyte conditions by significantly suppressing TEWL.

'24 hour protection and care'

For the first time since DSM's merger with skin care specialist Pentapharm, the enlarged company presented, at in-cosmetics, its complete portfolio of ingredients for the cosmetics industry.

With a concept themed "24 hour protection and care", the company's personal care team showed how its portfolio of vitamins, UV filters and active ingredients offer protection and care in products for any time of day. From morning to night its ingredients and special formulations work to protect the skin from the sun, to moisturise or energise the skin, or provide a complete anti-ageing treatment.



wheat, and a gamma-tocopherol content twice that of its alpha-tocopherol content. This makes quinoa an excellent source of vitamin E.

Dermofeel BGC (Dr Straetmans). INCI name: Butylene glycol dicprylate/dicaprate. This polar oil shows a very good solvating behaviour for the commonly used UV filters, and has a good ability to disperse pigments. Tests comparing it with other solvating oil components such as C12-15 alkyl benzoates show a similar solvating performance and excellent results, particularly spreadability and skin feel which are often problematic in products with high SPF.

Organic solutions

Original Extract Lemon Bio (Gattefossé). INCI name: *Citrus medica limonum* (lemon) fruit water. The Original Extract is a line consisting of true water extracted from plants, rich and pure as in the vegetable itself. Preservative-free, these "living" waters may partially or completely substitute for the water of cosmetic formulations (useful when the formulator is trying to obtain "organic" status). This new Original Extract Lemon Bio is made by flash distillation. It has been certified as 100% organic by Ecocert. Using Original Extract Lemon Bio in a formulation allows easy increasing of the percentage of organic material used, at low cost with no risk of instability of the formulation. The full original extracts range contains

11 ingredients, two of which (lemon and orange) are 100% organic.

GreenExfoliator range (Lessonia). GreenExfoliator products are not available from a certified organic source. Products available in the range include luffa (loofah), lychee, cocoa, coconut, bamboo, guarana, pomegranate and olive. The sterilisation is achieved through heat cycles and so can be used in an organically certified product, although the level used will not count as a part of the 95% required organic.

BioExfoliator (Lessonia). Bio trend with BioExfoliator, certified organic: one step further, for truly organic products ranges, for the most demanding brands.

Rejuvenation

Vitasource (Provital). Vitasource is a purified fraction obtained from roots of *Scutellaria baicalensis* standardised in baicalin which delays cellular senescence and recovers characteristics that skin cells had 10 years earlier. Delays the skin fibroblasts ageing process and postpones senescence. Increases skin firmness, elasticity and activity. Rejuvenates skin appearance.

Phycojuvenine (Codif). INCI name: Water (and) *Laminaria digitata* extract (and) phenoxyethanol. Phycojuvenine is extracted from the brown seaweed *Laminaria digitata*, also called oarweed, or "fouet des sorcières" in France and "Kombu" in Japan. Phycojuvenine rejuvenates and protects "adult stem cells" in the dermis, by prolonging tissue youth and respecting skin ethics. It has the effect of rejuvenation of dermal adult stem cells, an anti-ageing effect on dermal adult stem cells, rejuvenation of fibroblasts, stimulation of collagen synthesis, reduction of wrinkles and smoothing effect on skin microrelief.

TopicPure Red Vine (Frutarom). It contains tran-resveratrol which induces sirtuin activity to support cell longevity.

ACB Sirtuin Complex (Active Concepts). INCI name: Butylene glycol (and) *saccharomyces/podophyllum peltatum* ferment filtrate. Sirtuin or silent information regulator 2 proteins, are proteins that

regulate important biological pathways in cells. An increase in SIRT1 expression promotes the long-term survival of cells. Resveratrol has been shown to increase SIRT1 expression to promote longevity.

Dynachondrine ISR (ISP Vincience). INCI name: Water (aqua) (and) glycerin (and) hydrolysed soy protein. It is a peptide-rich soybean extract that was developed to slow premature ageing and to enhance the health and functioning of skin cells. It is a *Glycine max* (soybean) extract rich in peptides biomimetic to mitochondrial respiratory chain proteins. Dynachondrine ISR focuses on mitochondrial ageing by targeting one of the most advanced discoveries in longevity: sirtuins. In addition it acts directly through the stimulation of the mitochondrial respiratory chain to deliver a durable increase in energy, necessary for a high cellular metabolism and protection against oxidative stress and damage. It has been demonstrated to give better skin structure and appearance and is recommended as an ingredient in anti-ageing creams, serums with longevity claims and energising formulations linked to improving metabolic endurance and cellular energy boosting.

New exfoliating ingredient

Cherry Powder, a new exfoliating ingredient suitable for all types of skin, was being promoted by Laboratoires Expanscience. Made by grinding the pits of Montmorency cherries, the ingredient can be used in shower gels and face and body scrubs. It washes away impurities, and restores radiance to the skin which is softened and which has tone evened. Furthermore, it facilitates easier penetration of beauty care products.



Rheology modifiers

Oxetal VD 92 (Zschimmer & Schwarz).

INCI name: PEG 90 Glyceryl isostearate, laureth-2. Thickener for "difficult to thicken" surfactant systems/formulations. Especially used in very mild skin cleansing systems where thickening is a challenge. Colourless, clear liquid of medium viscosity, easy to handle.

SW-8005 C30 Resin Wax (Dow Corning). INCI name: C30-45 Alkyldimethylsilyl polypropylsilsequioxane. It is a rheology and texture modifier, structuring agent that has broad compatibility with organic and silicone

materials as well as a good compatibility with fragrances.

Rheocare C Plus (Cognis), INCI name: Carbomer. An optimised carbomer type which offers very interesting synergistic properties when combined with sodium polyacrylate. It shows an improved tolerance to electrolytes and can even be used in formulations with low pH values. Its crystal clear appearance also makes it ideal for use in hair gels, while its viscosity-building effect makes it suitable for use as a co-stabiliser in skin care applications.

Antil Soft SC (Evonik). INCI name: Sorbitan sesquicaprylate. It is a liquid thickening agent for rinse-off formulations that improves foam creaminess and reduces moisture loss of skin and hair after surfactant treatment. It shows excellent thickening and solubilising properties in various surfactant systems and works as a foam booster even in PEG-free formulations. Antil Soft SC is very easy to process. It is PEG-free, based on natural raw materials and readily biodegradable, which conforms to the Ecocert standard.

Glycol advance

DuPont Tate & Lyle BioProducts was promoting Zemea propanediol, the world's first glycol approved by Ecocert as an ingredient of natural origin.

Derived from corn sugar, Zemea replaces petroleum-based glycols or glycerin in many natural personal care formulations. Renewably-sourced, Zemea offers low odour, high purity, excellent humectancy and does not cause skin irritation or sensitisation, making it an attractive component of sustainable cosmetic formulations. It can be used as a humectant, emollient, solvent, hand-feel modifier, viscosity enhancer, for botanical extraction and dilution and as a carrier for other actives.



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Self-tan

MelanoBronze (Mibelle). INCI name: *Vitex agnus-castus* extract (and) acetyl tyrosine (and) glycerin (and) alcohol (and) aqua. MelanoBronze is a combination of acetyl tyrosine – a stable pigment substrate – and a monk's pepper berry extract (*Vitex agnus-castus*) that actively stimulates the melanin production in melanocytes. Natural self-tanning active to boost melanin production.

Tanositol (Provital). INCI name: Inositol. Natural active ingredient extracted from the fruits of carob trees, which intensifies, accelerates and prolongs suntan, also protecting the skin from UV-induced ageing.

Skin protection

Wacker-Belsil RG 90 (Wacker Chemie AG). This is a colourless, translucent silicone elastomer gel. It forms a firm, readily adhering film that is not tacky and feels silky-soft. The gel increases the water and transfer resistance of cosmetic products and gives them a pleasant skin feel. Lipsticks, mascara and foundation keep their decorative effect for a long time because the gel enhances water and transfer resistance. Also effective in kiss-proof lipsticks. In sunscreens and other skin protection products this gel improves water resistance. Wacker-Belsil RG 90 differs from other silicone elastomer gels in that its liquid constituent is isododecane, which is found in the network cavities. Isododecane is a volatile hydrocarbon used as a solvent in cosmetics, making the skin supple.

Pro-Lipiskin (Silab). INCI name: *Pichia anomala* extract. Pro-Lipiskin developed from a yeast, *Pichia anomala*, boosts all stages of the flow of epidermal lipids. It thus maintains or restores the lamellar lipid cement and restructures the barrier function.

Akorex L (AarhusKarlshamn). INCI name: Canola oil. Akorex L is a natural liquid emollient with a high content of tocopherols (300 ppm alpha-tocopherol and 600 ppm gamma-tocopherol) as well as phytosterols. It lowers the oxidative stress caused by UV radiation and environmental pollutants, making it a good ingredient for sun care and after-sun applications. It also protects the polyunsaturated fatty acids of cell membranes and decreases the oxidation of



Drawing attention to how it selects, refines and custom blends high quality waxes was Strahl & Pitsch. New in its portfolio are Lite Natural Wax Jelly, Natural Wax Jelly, Olive Butter, Sunflower Butter, Emulifying Wax NF, and Natural Lip Balm Base.

proteins and also reduces the inflammatory reaction caused by UVB radiation.

Tego Turmerone (Evonik). INCI name: *Curcuma longa* (turmeric) root extract. Improved skin radiance and evenness of skin tones. It is the distilled fraction of turmeric oil extracted from the root of *Curcuma longa* by supercritical carbon dioxide and is standardised to turmerones (65%) content. Significant intrinsic antioxidant activity has been observed in *in vitro* experiments. Studies with reconstructed skin models challenged by UVB irradiation demonstrate the upregulation of genes involved endogenous cellular defence mechanisms against oxidative stress.

Skin repair

Seabuckthorn Seed CO₂ extract (Flavex). INCI name: *Hippophae rhamnoides* (seabuckthorn) kernel extract. It is a fatty oil with a high content of polyunsaturated fatty acids including 14% to 21% oleic acid (C18:1), 34% to 41% linoleic acid (C18:2) and 24% to 35% alpha-linolenic acid (C18:3), 1% to 6% of unsaponifiable ingredients such as carotenoids, alkanols, tocopherols and sterols. It is used for cases of neurodermatitis and for the treatment of skin allergy.

REGU-CEA (DSM Pentapharm). INCI name: Spent grain wax, isomerised linoleic acid, behenic acid, palmitoyl tripeptide-5. Spent grain wax is known to offer outstanding itch relieving, replenishing and skin-soothing properties. It also exerts anti-irritant effects and antihistaminic properties. Palmitoyl tripeptide-5 stimulates the production of collagen, repairs extracellular matrix damage, and firms the skin. Its protective function is based on the inhibition of MMP expression and pro-inflammatory cytokines. Conjugated linoleic acid (CLA) helps to soothe the skin irritation and to recover epidermal barrier function. It also has antioxidative properties. Together these three selected and carefully balanced ingredients form REGU-CEA. An effective weapon to fight the symptoms of rosacea.

Gatuline Skin-Repair Bio (Gattefossé). INCI name: Alcohol (and) water (and) *Onopordum acanthium* flower/leaf/stem extract. Gatuline Skin-Repair Bio directly stimulates epidermal regeneration and promotes cutaneous repair. Acting on keratinocyte differentiation it stimulates the optimal epidermal reconstruction of dry or damaged skin. For normal skin, it helps the natural regeneration process for fresher, smoother and more radiant skin. This new material is obtained by hydro-ethanolic extraction of the aerial parts of *Onopordum acanthium*.

Lipex Collect (AarhusKarlshamn). INCI name: Phytosteryl canola glycerides. Lipex Collect offers improved bioavailability of natural sterols, and potential moisturising and soothing properties. The low melting point makes it easy to formulate skin care creams and lotions with an elegant skin feel. It has been shown *in vitro* to have anti-inflammatory properties as well as potential soothing properties for sensitive skin. These are important for sensitive and aged skin, characterised by a reduced content of skin lipids, especially cholesterol, and conditions related to skin imbalance and an inflammatory state.

Slimming

AmaraShape (Mibelle). INCI name: *Citrus aurantium amara* fruit extract (and) caffeine (and) lecithin (and) alcohol (and) pentylene glycol (and) aqua. AmaraShape is a highly effective combination of fat-burning ingredients for topical treatment of thighs, buttocks, hips, waist and arms. Refines body contours, firms and tones, smoothes the skin. AmaraShape is a natural liposomal thermogenic complex of biologically active amines from bitter orange and caffeine. This new combination of lipolytic substances (synephrine and caffeine) works in a synergistic way to accelerate the breakdown of lipids.

Aiming at body firmness

Solabia launched Camaderm GLY, a plant juice of black crowberries (*Empetrum nigrum*) from Lapland. Black crowberries are high in flavonoids and anthocyanins. The juice is obtained by cold pressing in a non-denaturing condition, and is stabilised with vegetal glycerin.

Camaderm GLY is aimed at body firmness and anti-ageing products. It prevents dermal fibre degradation, improves microcirculation and the protection of peripheral vascularisation, increases skin tonicity, and has a preventative action against stretch marks.

Actives from South America

Internationally orientated Brazilian company Beraca was promoting active ingredients extracted from the Amazon and other Brazilian sources. The company's range includes fixed and essential oils, butters, clays and combined fractions that enhance the performance of various types of cosmetics.



Drenalip (Provital). INCI name: Propanediol, water (aqua), *Ruscus aculeatus* root extract, *Citrus medica limonum* peel extract, *Solidago virgaurea* extract, *Astragalus membranaceus* root extract. Drenalip is a new standardised complex containing four vegetal origin active ingredients designed to combat and reduce the factors leading to cellulite. These ingredients perform a combined action that leads to a reduction of adipose tissue, a decrease in swelling and an improvement in blood flow. Studies have shown that Drenalip's multi-functional mechanism provides a higher level of efficacy than a single functional mechanism.

Timiline (Greentech). INCI name: Polyglucuronic acid. It lessens the orange peel skin effect, increases skin firmness, promotes a soothing effect and gives a reduction of cellulite. Via Adipokine FIAF (synthesised by the adipocyte) it directly inhibits the activity of the enzyme lipoprotein lipase (LPL) with a significant decrease in lipogenesis and hence fat storage. It activates the enzyme adipose triglyceride lipase (ATGL) a second lipase but with an important role in the lipolysis and in the release of fatty acids, at the lipidic vacuoles level. Via the increase in the synthesis of apolipoproteins, favours the transport of all these free fatty acids from the adipocyte towards peripheral tissues to be used as energy source. It inhibits the differentiation of pre-adipocytes.

Sun care

Helioguard 365 (Mibelle). INCI name: Aqua/water (and) lecithin (and) alcohol (and) sodium lactate (and) *Porphyra umbilicalis* (and) phenoxyethanol.

Helioguard 365 is the first natural UVA-screening active for daily protection. It is an answer for the high consumer demand for natural photo-protection. Protects 365 days against photo-ageing, from DNA damage, and so helps to prevent the appearance of lines and wrinkles. Helioguard 365 is a liposomal preparation of mycosporine-like amino acids from the sea alga *Porphyra umbilicalis*.

Baycusan C 1000 (Bayer). Sun cream formulations with Baycusan C 1000 offer excellent water resistance and a pleasant skin feel even at a high sun protection factor (>SPF 25). They give good non-sticky and non-greasy properties with high concentrations of organic and inorganic UV filters.

SolTerra Boost (DOW/Amerchol). SolTerra Boost derived from cellulose is not an active ingredient but it helps to improve the efficacy and performance of inorganic UV filters and inorganic/organic filter blends. It has a broad spectrum of activity and increases both UVA and UVB protection ratings – it can increase SPF ratings by more than 100%.

UV

SymHelios 1031 (Symrise). INCI name: Benzylidene dimethoxydimethylindanone. SymHelios 1031 will prevent damage by the UVB rays that pass through the UV filters.

Footnote

It is never possible to do a review of this nature without missing out a worthy supplier. Details of new concepts and products are always welcome, and should be sent to dweckdata@aol.com Personal Care always endeavours to cover newsworthy subjects.

PG

Expertise in range of technologies

Lubrizol, with its Noveon Consumer Specialties Division, was emphasising how the application of polymer science to the needs of personal care customers has helped it create building blocks for success. Offered to the personal care formulator is much more than rheology control agents. Today, Lubrizol/Noveon Consumer Specialties provide expertise in a range of personal care ingredient technologies, including those involving acrylic polymers, urethanes, silicones, high quality surfactants, methyl glucoside derivatives, lanolin and lanolin derivatives plus a number of other formulation additives such as nonionic emulsifiers, alcohol ethoxylates and isopropyl esters.

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