

Happi

Skin Care Products

Top Rated Skin Care Products Come compare Skin Care Products.

Top 10 Sites for Skincare

Top 10 Websites for Skin Care Products, Help, Advice, Tips, etc.

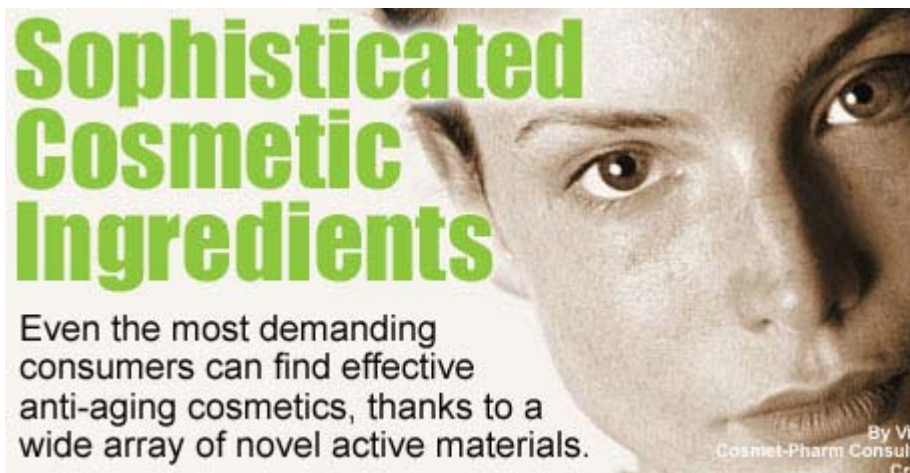
Ads by Goooooogle

Putting the Web To Work For You

Features

- [Home](#)
- [Current Issue](#)
 - [Table of Contents](#)
 - [Breaking News](#)
 - [Editor's Page](#)
 - [Meetings/Events](#)
 - [Ad Index](#)
 - [Formulary](#)
 - [Grayson Report](#)
 - [New Products](#)
 - [New Package](#)
 - [Personnel Round Up](#)
 - [Article Archive](#)
 - [Formulary Archives](#)
 - [Webguide](#)
 - [Company Websites](#)
 - [Professional Resources](#)
- [Subscribe](#)
- [Annual Features](#)
 - [Buyers Guide](#)
 - [Company Profiles](#)
 - [Literature Showcase](#)
 - [Corporate Profiles](#)
 - [Happi Latin America](#)
 - [Stock Market Summary](#)
 - [Contract Manufacturing / Private Label Directory](#)
- [About Us](#)
 - [Guidelines](#)
- [Advertise With Us](#)
 - [Media Kit](#)
 - [Personal Care Cybrary®](#)

[Return to Table of Contents](#)



Most companies understand the concept of selling benefits. Through the years, product marketplace focused primarily on characteristics that identified them on the basis of functions. Consumers are now demanding product satisfaction via the delivery of performance attributes and desired benefits that add value to their life. Crafty product backed by sloppy claim support may still attract initial purchase for the sake of trial for product. But longevity in the marketplace still depends on consumer-perceived overall with that new product. Nowadays, it is hard for established companies to compete on a successful recognized brand. The brands need a constant boost with innovative products to deliver benefits.

There is more pressure on suppliers to develop active ingredients and raw materials that marketers create skin care products that mimic the effects of aggressive skin treatments like botox and dermabrasion. In recent years, actives such as palmitoyl oligopeptide, palmitoyl tripeptide-3 and acetyl hexapeptide-3 are added to a new generation of personal care products, leading industry observers asking themselves: "Is it a cosmetic or a drug?"

This year, the Food and Drug Administration (FDA) reviewed labels and websites of skin care products and issued warning letters to some marketers after the agency determined that some products are promoted with claims that cause the products to be drugs under section 201 of the Federal Food, Drug, and Cosmetic Act (the Act) (21 U.S.C. 321(g)(1)(C)).

As skin care products edge closer to making dermatological claims, the FDA is turning a critical eye on the skin care market. Luckily the CTFA strives to keep options open for formulators and raw material suppliers by preparing legal memorandum responses to Register notices. There is now a complex balancing act between satisfying the consumer demand for perceived product benefits and avoiding FDA's ire.

Performance-driven Ingredients

Nanolipo-hGH from Regeron, a Korean company that focuses on "reverse-aging biotechnology," is billed as the world's first cosmetic

human growth hormone. This raw material is a bioactive hGH stabilized in nano-sized liposomes for ready use in cosmetic formulations. The liposomes facilitate skin permeation of hGH and enhance effects of keratolytic treatments due to hGH. The company also markets nanolipo-hGH Retinol Plus for enhanced anti-wrinkle treatment with minimal irritation.¹

Adhesives Research, Inc. manufactures custom-coated products, specialty films, pressure-sensitive adhesives (PSAs) and laminates for transdermal drug delivery applications for the pharmaceutical industry. The company has developed unique multi-functional patches and hybrid systems for the targeted delivery of therapeutic skin agents and cosmetic ingredients. Adhesives Research can formulate dissolvable films and multi-functional patches with precise functional properties, including film thickness, loading level, tensile strength and dissolution rate. Key ingredients can be incorporated into a dissolvable film that provides localized delivery through topical or oral delivery methods. These films offer many of the same benefits of traditional delivery methods, such as targeted delivery and controlled ingredient releases, while providing the added advantages of customizable properties for localized topical delivery, portability use.



Effective skin care products making consumers realize middle-age should look

I-Spheres is a patent-pending delivery system that is said to improve penetration and of actives. It consists of aqueous suspensions of spherical 50-500nm thermostable nanospheres which can be loaded with customized lipophilic actives, allowing for controlled release encapsulated ingredients. The degree of release can be adjusted through the types of system. This technology is available from New Paradigm Technologies, a division of T industries.

Stableact, a new polyol-in-silicone multi-phase emulsion system is also available from Paradigm. This system can be added directly to an already formed oil-in-water emulsion. A three-phase system can then be created in which the labile soluble active is located in the polyol phase and remains protected from the aqueous phase by the surrounding silicone.

Matrix metalloproteases are naturally-occurring zinc dependent endopeptidases which breakdown of connective tissue or extracellular matrix by hydrolyzing various components of the tissue matrix. New matrix metalloprotease inhibitors are available from Bioderm Research. These inhibitors inhibit tyrosinase production, enhance wound healing, control body odor and clarify skin. Resacetophenone is a tyrosine active-site deactivator that provides skin brighter properties.²

The cost and effectiveness of preservation systems has always been an issue with product formulators. Dermasoft Octiol (INCI: Caprylyl Glycol) is a multifunctional additive that reduces viscosity and improves wetting. Its compatibility with many cosmetic ingredients and its independent broad efficacy against germs allow for the use in tenside products and the addition of 0.3% Dermasoft Octiol shows remarkable improvement of the antimicrobial efficacy of traditional preservatives. Including this multifunctional additive in the cosmetic formulae permit the reduction of commonly used preservatives with less irritation. The U.S. representative is Kinetik Technologies, Inc., Hazlet, NJ.

Salvona is developing and manufacturing nanotechnology and patented delivery systems using microspheres, nanospheres and complex systems to provide specific performance features. These systems deliver a wide array of functional and active ingredients to enhance product efficacy and effectiveness. NanoSal is distinct from other microspheres, nanospheres, nano-capsules and lipospheres. The active is uniformly dispersed in a customized blend of a solid polymer matrix system with a 50% payload. The matrix retains the active, preventing pre-mature release. The system is said to be more stable than liposomes. The surface of these sub-micron spheres can be made cationic or bioadhesive to adhere to human endothelium cells or to hair. This technology provides stable deposition and slow release of various anti-aging actives. MultiSal is a

powder with high concentrations of functional ingredients encapsulated in nanosphere technology is a recent controlled-release encapsulation system from Salvona that allows encapsulation of various functional ingredients at very high payloads. It can be incorporated into water, alcohol and hydro-alcoholic products. It consists of nanospheres that are coated with a polymeric layer.³



Is a wrinkle-free senior citizen a cosmetic possibility?

Nanoemulsions are becoming increasingly popular as vehicles for the controlled delivery of cosmetics and as an optimized dispersion of active ingredients in skin care. The traditional method of preparing nanoemulsions using mechanical homogenization requires high energy with limited practical applications. The block co-polymer nonionic emulsifier, tocophereth-50 was found to produce stable nanoemulsions with mean droplet diameters ranging from 204 to 499 nm. The emulsification method of high-speed stirring at the laboratory scale using PPG-20 tocophereth-50 was found to be very effective for the preparation of stable nanoemulsions useful for a wide range of skin care cosmetics, cosmeceuticals and drugs.⁴

Vitabrid-C is a stabilized form of vitamin C. The material was developed by Nanohybrid Inc. and is marketed by Cellego Synthetics Inc. Vitabrid-C is a hybridized form of L-Ascorbic acid with bio-compatible inorganic material on a nanometer scale that delivers controlled release of the encapsulated vitamin C. IAA-Brid is a nanohybrid of 3-acetic acid. IAA is a plant growth hormone widely found in plants and which is introduced as an anti-wrinkle agent supposed to be more effective and less irritating than retinol. Both products use nano-encapsulation to provide controlled release and protection from oxygen, light and moisture.

Ivrea Laboratories, Inc. is devoted to the development and production of unique cell delivery systems for aged, damaged or diseased human tissue. The company has developed a delivery system that increases the stability and decreases the irritation of selected cosmetic ingredients such as retinol. According to Ivrea, nanoparticles can be "hot spots" on the skin that cause irritation. To reduce these hot spots, Ivrea entraps nanoparticles in a chitosan matrix (Chitospheres) to avoid direct contact with the skin and for optimal delivery to the skin. Chitosan is a glycosaminoglycan with a high affinity for lipids and hydrophobic molecules, which results in active complexation and stability enhancement. Chitosan has humectant properties and significant bioadhesiveness to epithelial cells which leads to a controlled release of the encapsulated ingredients.

Improving Hair Health

Skin remodeling copper peptides (SRCP) are the latest candidate being tested for the improvement of hair health. While the search for methods to restore healthy, younger hair is ancient, that, even today, in the era of minoxidil (Rogaine) and finasteride (Propecia), all existing treatments provide, at best, a marginal restoration of hair health. SRCPs are based on a human hair complex called glycyl-L-histidyl-L-lysine:copper (II) (GHK-Cu). GHK-Cu is a normal component of human blood plasma, urine, and saliva.¹ It is a key ingredient in anti-aging products. Its actions are similar to GHK-Cu, including anti-inflammatory effects, skin repair actions and increase the size of hair follicles. It should be emphasized that not all copper-peptides have positive actions; indeed, some copper-peptides can inhibit these effects.⁶

Back to Nature

In the early nineteenth century, the pharmaceutical industry did not exist and there were no man-made medicines for treating skin disorders; instead, people turned to nature. This is true even today when we have such a variety of skin care products available to us, which claim to have discovered a new discovery in creating a flawless complexion.

Safflower oil triglycerides form the basis of a natural approach to cosmetic emulsification using the patented DermaSphere technology with Safflower Oleosomes—Natrulon OSF. Oleosomes

own emulsifiers. The material has a hydrophilic outer shell made of protein, a phospholipid and a hydrophobic core. Natrulon OSF is isolated naturally as 75% O/W emulsion and contains other oil phase ingredients. This is one material which does the job of an emulsifier, an antioxidant and a moisturizer.⁷

Eclatine, developed by Silab Research, France, is an active ingredient rich in lipophilic peptides. This ingredient is recommended for use in cosmetic products to improve skin tone. Its activity is due to stimulation of vascular epidermal growth factor that oxygenates and improves skin making it less dull, more uniform and radiant. Eclatine has an effect on skin microcirculation, cutaneous cellular activity and oxygenation.

Bacopa (Bacopa monniera) is found throughout India and Pakistan. It is an Ayurvedic rasayana formula for improved brain function. Studies have shown that it has powerful free radical scavenging capacity and protects DNA.⁸ The herb contains the alkaloids bacosaponin, monnierin, bacoside A and bacoside B. The other phytochemicals, betulinic acid, wogonin and oroxindin, are isolated from the aerial parts of Bacopa monniera and show significant antifungal activity. The cell membrane lipid protective properties of bacopa concentration was demonstrated by a decrease of the quantity of 4-hydroxynonenal and malonaldehyde formed due to lipid peroxidation with UVA radiation. Bacoside was also found to have anti-irritation properties.⁹

Acmella oleracea (Paracress) plant extract from Gattefosse is rich in isobutylamides, alkamides, spilanthol and nonvolatile sesquiterpenoids. This natural extract is being commonly used in anti-aging products as a safe alternative to Botox. It is a powerful topical active ingredient with a relaxing activity and is useful in smoothing fine lines and wrinkles. The extract has applications in facial skin care products such as emulsions, microemulsions, serums and gels.

Consumers have become more sophisticated and more informed about various cosmetic products. They are always searching for products that give more value for money and benefits. Today, many suppliers are delivering effective ingredients that exceed even sophisticated consumer's expectations.

References

1. Human Growth Hormone (hGH). Product brochure: Regeron—Reverse-Aging Biotech, Kangwon-Do, South Korea.
2. Gupta, S., Bioderm Research. New Matrix Metalloprotease (MMP) inhibitors and application in cosmetic and OTC drug formulations, PCITX Conference, New York, NY, April 26, 2005.
3. Shefer, S., Salvona Technologies Inc., Nanotechnology for skin care. PCITX Conference, New York, NY, April 26, 2005.
4. Kim, Y., Kim, J., Cho, I., Kim, K.; A novel nanoemulsification method of stirring a solution with the tocopherol-based block co-polymer nonionic emulsifier PPG-20 Tocopherol. International Journal of Cosmetic Science, April 2005, Vol. 27, No. 2, pp. 144-149.
5. Cuttaneo, M., Ivrea Laboratories Inc. Chitosphere Topical Delivery System. PCITX Conference, New York, NY, April 2005.
6. Pickart, L., Dr. Straetmans Chemische Produkte GmbH. Improving hair growth with remodeling copper peptides. Cosmetics & Medicine (Russia) July 2004.
7. Guth, J., Lonza Inc. Oleosomes: The natural way to formulate. PCITX Conference, New York, NY, April 26, 2005.
8. Russo, A., Izzo, A., Borrelli, F., Renis, M., Vanella, A., Free radical scavenging capacity and protective effect of Bacopa monniera L. on DNA damage. Department of Biochemical and Medical Chemistry and Molecular Biology, University of Catania, V.le A. Doria 6, Catania, Italy.
9. Chamberlin, C., Mondon, P., Lamy, F., Peschard, O., Litner, K. Sederma Sensitivity to Irritation by Topical Products.

cosmetic approach. PCITX Conference, New York, NY, April 26-27, 2005.

!