



The Cosmetic Chemists Handbook

The Latest
Innovative Ingredients





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1 Introduction

If there is something that the industry of personal care and cosmetics is never going to lack, it is: **reinvention**.

Since the beginning of time, people have been concerned about their looks, always trying to use products on their hair and skin to enhance their natural beauty and also using color to make their appearance pop. At the end of the day, it seems that the desire to always look better is intrinsic to human nature.

As time goes by, trends, standards of beauty, and technology changes and the personal care and cosmetics industry needs to adapt to this by creating new ideas and concepts to meet the needs of an evolving and demanding market.

In 2018, the main trends are going to **be multitasking products that can do several things on the skin and provide different benefits**. The average consumer obviously always wants to achieve great skin or hair using as few products as possible. They want to buy certain products that truly make a difference and perform well. Products that offer shine are also a big trend that will continue to grow across a whole range of products, including metallic make-up.

On the other hand, people nowadays are more conscious and worried about the ingredients used in their products. Therefore, they are looking for products that contain natural and healthy ingredients that can provide all the benefits they need.

02 Top latest innovative ingredients

The skin care and cosmetics industry grows every year. There is a constant need for creating new technologies that provide more benefits for the skin and hair as well as to create innovative textures and concepts.

Blue Sun International offers a **wide range of high end technologies for skin care, hair care and cosmetics**. We have a line of innovative ingredients that offer multiple benefits that distinguish them from the average product. Each product has its own approach, but it is designed to bring out the best for the skin and hair.

2.1 Butterpowders

Butterpowders are a high-end powder technology. This is a line of powders coated with natural butters, which helps eliminate the sharpness and it means they are soft and moisturizing for your skin. They contain Quercitin, which is known as a natural antioxidant that enhances the stability of the product.

There are three different butters (cocoa, mango and shea butter) used for coating the different powders (talc, mica, kaolin, rice starch and distract phosphate).

Each powder has unique properties that make them more useful in some formulas, depending on what you want to achieve. For example, Butterpowder RSSB-Q can help absorb oil. Butterpowder MCB91-Q might

be more useful for colored cosmetics for a greater reflection of the color. If you want a talc-free product, Butterpowder K-Q could help.

One of the main benefits of butterpowders in comparison with normal powders is the color boost they provide. Thanks to their cover, the color is enhanced. They have a super smooth and silky texture, which leaves a rich soft sensation on the skin. The coating also enhances the adherence of the product or the color to the skin, giving your products more staying power. As the feel of them is so pleasant, they can be used to create excellent textures. What is more, because of the coating, once they are applied to skin they will not feel dry to the touch, but will offer a more soothing, moisturized sensation. As the powders are coated with natural butters they are ideal for natural products.



As is true for powders in general, these butter powders can be used in a lot of formulas, from skin care to color cosmetics and even hair care. They can be used as fillers in every formula, improve the aesthetics and provide all the benefits mentioned before.

2.2 Phytoleo Shine



This naturally derived product (**combination of dimer dilinoleate, olive oil and jojoba oil**) has the main goal of leaving your hair in excellent condition, so that the hair is shiny, moisturized and smooth. It behaves like silicone, providing all the same properties but without the build up that silicone generates after prolonged use.

In this way, not only leaves hair looking good but also protects it by creating a film which controls split ends and hair shaft breakage. This protective barrier also improves water resistance which helps control hair damage. Although it is highly polymerized it retains its liquid form and does not change color over time.

That makes it ideal for hair care products as a completely natural substitute for silicone. In each product it is used in it will enhance and protect the natural beauty of the hair, providing shine, moisture and smoothness, eliminating frizz and making combing easier.



2.3 Moistplus

A high end system that combines natural products (**natural moisturizing agents and natural plant extracts**), including **bananas extracts** to provide ultra-long lasting moisturisation and hydration for the skin.

The combination of ingredients in this raw material offers the skin increased protection. The hyaluronic acid in it helps skin maintain its elasticity and the PGA it contains participates in metabolic activity to improve skin health. The levan makes it hypoallergenic, as does the PGA.

Its long-lasting moisturizing and hypoallergenic efficacy has been proven when compared to other raw materials.

When used in formulas the skin will not only end up looking radiant, hydrated and soothed, but will also leave skin healthy, well balanced and protected.

It can be used in a wide range of skin care products, sun care products or even in color products like foundation to offer the skin a wide range of benefits.



1-5 %

The recommended dosage of the formula.
It is water soluble.

2.4 Dermanet

A combination of the best ingredients to provide a unique softness to the skin and hair, created through a functional microfluidic process that brings out the best of each component whilst. What we get?

- Remove the stickiness from the glycerin
- Creation of new textures
- Improvement of the skin absorption due to emulsion particle size
- A clear appearance with up to 25% oil (dimethicone / squalane / jojoba)
- Easy water solubility without the need for high speed mixing or heat
- A unique encapsulation in a lamellar structure using lecithin

The Dermanet product comes in 3 varieties:

1. **Dermanet Dimethicone** (INCI Name: Glycerin & Dimethicone & Water & Hydrogenated Lecithin) Used for skin care and hair care.
2. **Dermanet Squalane** (INCI Name: Glycerin & Squalane & Water & Hydrogenated Lecithin) Used for skin care.
3. **Dermanet Jojoba** (INCI Name: Glycerin & Simmondsia Chinensis (Jojoba) oil & Water & Hydrogenated Lecithin) Used for hair care (eco-friendly version)

The following benefits can be obtained from using Dermanet products:

- Improves softness and acts as a skin protector
- Forms a smooth coating around each strand of hair, reducing friction during styling
- Replenishes surface lipids making the skin feel softer
- On hair, it acts as a natural serum, which improves shine and appearance

The greatest benefits for your skin and hair in one single product.

2.5 Phytleo Hydragloss

A mixture of 100% natural ingredients that bring **shine** and **hydration** to skin and hair products.

Using our product, you will be able to create formulations with unique properties such as excellent adherence to skin, an unrivalled shine, a feeling of hydration, long lasting use and water resistance.

In body and face wash products, another key characteristic you will enjoy is a gentle and creamy foam. In color products, you will see an excellent pigment dispersion and high compatible powders.

The best option for creating products with a stand-out shine.



2.6 ACT-EAA

Technology and nature join together to create a Stabilized Ethyl Ascorbic Acid which offers excellent properties for the skin:

- 1. Lightening and shine:** Clinical trials have shown that a cosmetic formulation with ACT-EAA at 2.0% is effective in lightening the skin and creating shine. ACT-EAA lightens and even improves the appearance of sun-damaged skin and dark spots.
- 2. Anti-inflammatory** ACT-EAA is a powerful anti-inflammatory. Vitamin C cannot be efficiently absorbed by the skin due to its structural instability and limited solubility. On the other hand, ACT-EAA is stable and soluble in water, as well as in solvents like oil, which means it is easily absorbed into the skin.
- 3. Anti-aging,** ACT-EAA penetrates the skin and promotes collagen synthesis, which reduces wrinkles and roughness.
- 4. Anti-Oxidant,** ACT-EAA is a powerful anti-oxidant that reduces free radicals in the skin.

Some other benefits:

- Soluble in water and oil
- Greater stability
- Metabolized in the human body in the same way as ascorbic acid
- No need to add antioxidants to the product
- High skin penetration

A good choice for skin care products.

2.7 Red Rosewine Complex

Red Rosewine complex (INCI Name: ((Red) Rose Extract, (Red) Wine Extract, Sucrose, Mineral salts, Butyleneglycol, 1,2-Hexandiol, Water)

White Rosewine complex ((White) Rose Extract, (White) Wine Extract, Sucrose, Mineral salts, Butyleneglycol, 1,2-Hexandiol, Water):

These 2 active ingredients are based on the same technology. They are synthesized through an innovative extraction process using mineral sugars and reverse osmosis. These come from a petal extract and wine extract. The gentle extraction process perfectly preserves the polyphenolic compounds, vitamins and organic acids. These complexes are anti-oxidants and they are amazing for anti-aging.

These two active ingredients offer antioxidant and anti-aging effects and they are completely natural (rose and wine extraction, catalyzed by mineral sugar). They have a double anti-aging action: preventive and corrective, unlike regular anti-aging active ingredients. They can be used in products that claim to have “fragrance-free” formulas (the active ingredients have a very slight scent due to the rose petals but it is not considered as a fragrance). We also have a “preservative-free” version made with hexandiol.

The red rose wine complex increases levels of collagen biosynthesis, inhibits cell oxidation and increases cell life span, which results in healthier and radiant skin. That makes it perfect for skin care products for wrinkle treatment, anti-oxidation and anti-aging.

The white rose wine complex ingredients brighten the skin through melanin inhibition and anti-aging. It diminishes the redness on skin, provides a smoothing effect and also has an anti-inflammatory effect. It is great for sensitive skin formulas and anti-aging formulas.



2.8 Bioglitter

Plastic Glitter vs Biodegradable Glitter

There is a growing trend that involves the use of glitters in several cosmetic applications, such as shower gels, eyeshadows, hair gels, body scrubs, masks, etc.,. These applications look amazing and sparkly however, most of them use plastic glitter. The use of that type of glitter causes unnecessary hazard to the environment. Microplastics cannot be recycled and because of their small size they cannot be collected and discarded properly.

The next table shows the advantage of Biodegradable glitters:

| Plastic glitter | Bioglitter |
|--|---|
| No biodegradable | >90% Biodegradable |
| Made with polyethylene and plastic | Made with cellulose |
| High shine | High shine |
| Hard | Soft (30-40% softer than regular glitter) |
| Available in different size and colors | Available in different size and colors |
| Contaminates sea. Damages marine species. | Biodegrades in the environment (ocean, rivers,...) |

The best part?

Bioglitter is the first and only Biodegradable glitter in the market. Bioglitter technology uses plant derived material as its basis rather than polyester and is the only glitter available on the market. Bioglitter will biodegrade into harmless substances in the natural environment. Bioglitter can be used in cosmetics, arts & crafts, etc...





3 Conclusion

The cosmetic industry is always trying to innovate. New products are constantly being launched. Innovation and the 'wow' factor is intrinsic to launching new products in the market. New textures, concepts and applicators with the same goal in mind. Top seller products that nourish, cleanse, hydrate are comfortable to wear and makes you feel good.

In order to provide raw materials that can meet the needs of a demanding market Blue Sun is always providing high-end technology ingredients. Our products can be used in a wide range of formulations and will increase the quality of skin, hair or makeup products. Blue Sun's performance driven products will improve the aesthetics of formulas. Blue Sun raw materials can be used to create new concepts that go hand in hand with upcoming trends