



When we introduced Confetti™ Dermal Essentials in 1996, we helped personal care companies put some serious fun into their products. Now, the improved stability of Confetti II Dermal Delivery Flakes allows formulators to invite a wider range of products to join the party. Any product that can benefit from the delivery of oil-soluble ingredients and actives to the skin can get in on the fun. Even surfactants won't wash away your ability to incorporate botanicals, vitamins, oils, or fragrances in a novel way that your customers are sure to notice and enjoy.

Our line of Confetti II Dermal Delivery Flakes consists of Vitamin A Palmitate, Vitamin E Acetate, Allantoin, Stearyl Glycarrhetinate, Monoi

**Announcing new, colorful
ways to make your product
the toast of the town**

de Tahiti® or Rose-Gardenia fragrance in a rainbow of colors. And, our scientists are willing to work with you to transform virtually any functional, oil-soluble ingredient into a skin care party animal.

Not only will consumers relish what you bring to the personal care party, your production and accounting crews will also toast to your ingenuity. Confetti II Dermal Delivery Flakes have many advantages over liposomes and microspheres. Like ease of production, increased shelf life, improved aesthetics and lower costs. To drink in all the advantages that Confetti II Dermal Delivery Flakes can bring to your products, call, e-mail, or write for information and samples.



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❖ Confetti II™ ❖

Dermal Delivery Flakes

General Information

❖ Confetti II is a multifunctional additive for cosmetic, personal care and topical treatment products. It consists of decorative and functional flakes suspended in a moisturizing gel base. The product adds an artistic quality to clear products while also contributing beneficial moisturization and delivering an oil soluble active ingredient directly to the skin. Confetti II can add valuable functionality while enhancing the on-shelf appearance of clear products such as body washes, liquid soaps, shampoos, and virtually all types of gelled products. Confetti II may also be added to lotions and creams

❖ Confetti II has several advantages over other delivery systems. Liposomes are usually limited to loading with hydrophilic active ingredients, while Confetti II delivery systems are lipophilic in nature. Also, the structural and thermodynamic stability of liposomes and multiple emulsions is questionable, especially in complex formulations containing emulsifiers and other surfactants.

Decorative microcapsules usually consist of cross-linked gelatin membranes or cellulose. These capsules are most often either very fragile, to the point where they are ruptured during processing; or in the case of gelatin capsules, they are sometimes too hard, thereby resulting in poor rub-in quality and must be rinsed off the skin. Confetti II, on the other hand, has an excellent balance of structural integrity and rub-in characteristics. The flakes always rub completely into the skin without applying any extra pressure.

❖ Confetti II is supplied as a viscous concentrated suspension in a hydrophilic polymeric gel. Confetti II is easy to work with, it may be incorporated at 5 - 10% into virtually any finished product with low shear mixing during the final pre-packaging step. Opaque products may require a higher level of Confetti II to achieve the desired aesthetic qualities. Just avoid over-mixing. You can even mix different colors or actives for virtually an unlimited product line.

❖ *Confetti II* is available in a variety of colors including gold, blue, green, bronze, and red. They are formulated to contain a variety of active ingredients such as Vitamins A Palmitate, Vitamin E Acetate, and counter-irritants such as Allantoin and Stearyl Glycyrhethinate. We even have Monoi de Tahiti® (Monoi de Tahiti Corporation, France). United-Guardian also has the ability to incorporate oil soluble botanical extracts, natural or synthetic fragrances, dermatological ingredients and just about any oil soluble active that is functional at low concentrations. United-Guardian will work with you and your customer to design your unique system.

Confetti II AL contains the skin conditioning agent Allantoin. Allantoin alleviates the irritation associated with other raw materials, such as soaps, which may be present in your formulations. *Confetti II AL* allows you to provide a more beautiful, yet less irritating product with one simple addition. This *Confetti II Dermal Delivery Flakes* is only available in a non-pigmented white flake.

All of the other standard *Confetti II Dermal Delivery Flakes* are available in any of the following vibrant colors: Gold, Bronze, Blue, Red, and Green. Choose a color and active ingredient combination to suit your needs.

The family of standard *Confetti II Dermal Delivery Flakes* includes *Confetti II SG*, which contains Stearyl Glycyrhethinate, another popular counter-irritant. Derived from the licorice plant, Stearyl Glycyrhethinate is a natural ingredient, which provides a valuable function.

Two of our standard *Confetti II Dermal Delivery Flakes* contain vitamins, allowing the delivery of these desirable oil soluble ingredients in a clear product without complicating the formulation process. *Confetti II EA* contains Vitamin E Acetate (Tocopheryl Acetate). Vitamin E Acetate finds use in a wide variety of cosmetic and personal care products as an anti-oxidant and a skin conditioner. *Confetti II Dermal Delivery Flakes* expands the range of applications for Vitamin E Acetate to all types of clear, colorless and/or water based products. *Confetti II PA* contains Vitamin A Palmitate (Retinyl Palmitate). Like Vitamin E Acetate, Vitamin A Palmitate also adds skin conditioning properties to your formulations. Now the benefits of Vitamins can be incorporated into a whole new spectrum of products through the use of *Confetti II Dermal Delivery Flakes*.

The use of botanical additives in *Confetti II Dermal Delivery Flakes* is showcased in our standard *Confetti II MT*. This *Confetti II Dermal Delivery Flakes* contains Monoi de Tahiti® a complex of coconut oil and Tiare (*Gardenia Tahitensis*) flower. This centuries old Tahitian blend is renowned for its moisturizing and skin conditioning properties. Over time its effectiveness has been shown in the glowing complexions of the natives who have made Monoi de Tahiti® a part of their culture. Introduce your customers to this unique blend through the use of *Confetti II Dermal Delivery Flakes*.

Processing and Use

❖ Confetti II is a multifunctional additive for cosmetic, personal care and topical treatment products. It consists of decorative and functional flakes suspended in a moisturizing gel base. The product adds an artistic quality to clear products while also contributing beneficial moisturization and delivering an oil soluble active ingredient directly to the skin. The following guidelines and recommendations should be taken into consideration when developing products using Confetti II Dermal Delivery Flakes.

❖ Formulating:

Confetti II Dermal Delivery Flakes provide striking visual effects when they are suspended in a clear product. A high yield value is necessary in order to achieve and maintain a suspension of Confetti II throughout your product. If the yield value of your formulation is too low, the Confetti II flakes will sink or float. Suspending agents such as Stabileze® from ISP or Xanthan Gum are helpful in raising the yield value of a formulation.

Some cosmetic pigments are inherently sensitive to light. To protect the vibrant colors of Confetti II Dermal Delivery Flakes, we recommend that you include UV filters or absorbers in products containing Confetti II Dermal Delivery Flakes.

❖ Processing:

Confetti II Dermal Delivery Flakes consists of delicate flakes suspended in a clear base gel. To avoid damaging the flakes it is important to always use low shear equipment when working with Confetti II, Confetti II should be the last component added to a batch prior to the fill operation. Confetti II can be added to the finished product with gentle paddle-type mixing. Confetti II Dermal Delivery Flakes should not be subjected to filtering or centrifugal pumps. If is necessary to pump the product, only diaphragm style pumps should be used.

❖ Cleaning equipment:

Since the Confetti II flake is highly lipophilic, high HLB surfactants are necessary to emulsify the residue left in tanks and processing lines. Hot, alkaline surfactant solutions are recommended for best results.

❖ Storage:

It is recommended that Confetti II Dermal Delivery Flakes be stored at room temperatures of 20 – 25°C. Storage at higher temperatures should be

limited to short time periods. To maximize color fastness when clear containers are used in the packaging of Confetti II containing products, these containers should include UV absorbers.

For more information contact Joseph Vernice at United-Guardian, Inc. at the telephone number or address above, or via Internet at <http://www.u-g.com> or e-mail at jvernice@u-g.com