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*Dinner Hour*

**Natural Active  
 Ingredients  
 Approach for  
 Healthiest Looking  
 Skin**

Jean-Philippe Cosson

Global Marketing and Sales Manager  
 SILAB



Considered in the past as a secondary claim always associated with a major claim, skin complexion nowadays appears to be of major concern to the consumer regardless of where one resides or natural skin color. Thus, the improvement of radiance and how to evaluate the effect in cosmetic products are complementary challenges in current cosmetic research. SILAB's development strategy is to focus on mechanical and biological pathways, both involved in the quest of radiance, by proposing active ingredients which achieve the following:

- Lifting effect for a better reflection of light
- Biological actions for an internal improvement of the skin's texture

SILAB's solutions to highlight health to the skin result from the tight alliance of nature, science and technology.

...continued on page 5

*Educational Hour*

**Designing Molecular  
 Actives Through  
 Green Chemistry  
 for Enhancing and  
 Protecting Skin  
 Cellular Metabolism**

Fabrice Lefevre

Scientific Marketing Manager  
 LibraGen / Induchem AG



Our skin is a highly sophisticated organ which main metabolism role consists in controlling the exchanges with the external environment of our body: limitation of water loss, heat regulation, capture of external signals, detection of contact/pressure and immune system warning. Ensuring this key protective function, our skin changes over the years as a result of aggressive external events (stress, sun exposure, mechanical damage) and of the genetic information carried by each of its cells. These elements lead to the phenomenon of cellular senescence characterized by a lower cell renewal, and signs of aging appear from the age of thirty when the cells do not regenerate over the rate of their destruction.

...continued on page 5

*Meeting Details:*

Date: **Tuesday - September 27, 2011**  
 Location: **Renaissance LAX**  
 Menu: **Chicken or Vegetarian**

Educational Hour - 5:30 p.m.    Social Hour - 6:30 p.m.  
 Dinner Hour - 7:15 p.m.        Speaker - 8:00 p.m.

**More Meeting Details on Page 2**

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Reservation Deadline: 12:00 p.m. (noon) Friday-September 23  
 If you reserve and do not attend, you are responsible for meeting charges.  
 You will be billed accordingly.

**Meeting reservations are strongly encouraged!**

*Inside this issue:*

Calendar of Events...2 Job Opportunities...10 Advice to the Lab Lorn...21 Sponsorship Opportunities...30

### Meeting Details

#### Location

Renaissance LAX  
9620 Airport Blvd.  
Los Angeles, CA 90045  
(310) 337-2800

#### Costs

- \$40.00 Members with reservations and first-time only guests with a member-sponsored reservation. *Non-member pricing in effect after first meeting.*
- \$65.00 Members without reservations
- \$48.00 Non-members with reservations
- \$65.00 Non-members without reservations

#### Menu

Chicken or Vegetarian

#### Reservations

Please register and pay online at [www.caliscc.org](http://www.caliscc.org); ROSS Organic: **562-236-5700**  
Call-in registrations must be guaranteed with credit card and will be charged for no-show. Reservations will be accepted no later than 12:00 p.m. the Friday before SCC Meetings. If you call in after 12:00 p.m., your spot cannot be guaranteed and you will be required to pay the walk-in rate. Limited space – register today! Walk-ins may be turned away.

### Meeting Sponsor

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### Society of Cosmetic Chemists - California Chapter

## 2011 Calendar of Events

Month	Date	Event	Location
September	27	California Chapter Monthly Meeting	Renaissance LAX
October	25-26	California SCC Suppliers' Day 2011	Long Beach Convention Center
November	4-7	Skin Care Ingredients for Cosmetic Professionals - Part 2	UCLA
November	15	California Chapter Monthly Meeting	Renaissance LAX

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The *Cosmegram* is the official newsletter of the Society of Cosmetic Chemists - California Chapter. This newsletter is published as a service to our members. <http://www.caliscc.org>.

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**Deadline** for the October Cosmegram is **September 28**

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## Be the Next SCC Monthly Meeting Sponsor!

The SCC California Chapter is opening sponsorship opportunities to anyone interested in introducing their company during our monthly meetings.

The benefits of sponsorship are to provide you and your company with the following:

- **Approximately three to five minutes to introduce your company and employees, products, capabilities and/or services.**
- **The exclusive right to distribute literature and samples at the monthly meeting.**
- **Optional table adjacent to the registration table to distribute literature and samples by one or two employees.**
- **Your company name will appear on our Sponsor board at the meeting.**
- **Your company name and location will be included in all meeting announcements, including our monthly newsletter (Cosmegram) and all email announcements and reminders.**
- **Your company name will appear for one month on the SCC website as "This Month's Sponsor", which will include a link to your company website.**
- **Your donation to sponsor a meeting is tax deductible with our non-profit status.**

**Cost:** The cost to sponsor a SCC chapter meeting is \$350.

Please contact Yi Hsin Chang or Guy Langer if you are interested or have any questions.

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Chemistry 802.7, REG#W4807  
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Designed for cosmetic professionals from all backgrounds, this two-course series provides an overview of skin biology and skincare ingredient technologies for the non-chemist.

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**PREREQUISITES** | No previous background in chemistry is necessary. While Parts I and II can be taken independently, it is suggested that Part I be taken first, especially for students with limited ingredient knowledge. *Enrollment limited; enrollment prior to the first class required.*

#### TUITION |

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After October 4th \$545

#### LOCATION |

University Extension, Lindbrook Center  
10934 - 36 Lindbrook Ave | Westwood CA  
**204 ABC** | Friday, Saturday & Sunday | November 4, 5 & 6  
**202** | Monday | November 7



#### WHO SHOULD TAKE THIS SERIES |









Product developers, marketing managers, educators, sales representatives, raw material suppliers, estheticians, physicians, nurses or those otherwise involved in the development and promotion of skin care products should find the material highly applicable and appropriate to their level of specialty.

For more information or to register call UCLA Extension at 310.825.7093 or visit <https://www.uclaextension.edu/cosmeticchemistry>



#### YOUR INSTRUCTOR |

Rebecca James Gadberry has been the lead instructor of the UCLA Extension cosmetic science program since 1986. Considered one of the foremost skincare ingredient authorities in the global cosmetic community, Gadberry has developed over 1300 skincare products, contributed to the success of dozens of cosmetic brands worldwide and is a popular educator at conferences and tradeshows throughout the United States. She is currently Chairman of the California Chapter of the Society of Cosmetic Chemists and is Chairman | CEO of YG Laboratories.

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## Five Things You Should Know About the Safe Cosmetics Act of 2011

*Doug Schoon*

Everyone supports safe cosmetics, but many oppose the Safe Cosmetic Act of 2011 (H.R. 2359) recently proposed to the U.S. Congress. Several industry groups and associations have already offered their reasons to oppose passage of this proposed act. Rather than list the many problems previously identified and easily obtained from the Internet (1), I've chosen to focus on five key concerns industry scientists should be aware of when considering this legislation.

1. The proposed bill will create confusion because it improperly redefines the term "ingredient" to include processing aids and contaminants with no technical or functional effect. All of these newly created "ingredients" will be required to appear on the label, as will all individual components of animal or petroleum derived substances. Each must be identified on the label as individual ingredients. Botanicals and natural ingredients can be expected to pose a dilemma since they are composed of small traces of many substances. For example, individual phytochemicals will be required to be listed and the name of the plant will not be sufficient.
2. The label would also require listing of all contaminants with concentrations greater than one part per billion (ppb), if they can be "feasibly detected". These contaminants must be reported even if a few ppb leach from the container walls into the product. Also included are "reaction by-products created over the shelf life of the cosmetic products". In other words, if a product has a tendency to yellow near the end of its shelf-life, that yellow contaminant must be identified on the label as an ingredient as would all similar reaction by-products which form over the life of the product, even if they are in miniscule amounts, e.g. parts per billion.
3. Under this proposal, cosmetics are only considered safe if they cause "no harm" to the general public. Not even skin irritation would be exempt! This impossible requirement includes possible harm from aggregate exposure to the cosmetic or ingredient, including low-dose and/or additive exposures over time to the cosmetic or ingredients, as well as cumulative exposure resulting from all sources, including both the cosmetic or ingredient and all environmental sources. As an example, it would no longer be enough to ensure that traces of lead in a cosmetic pigment exist at safe levels. Instead, formulators would be required to consider how much lead the consumer may be exposed to on a daily basis from ALL sources, including those that are naturally occurring, in aggregate with other cosmetic and consumer products. The proposed act makes no mention of how this is to be accomplished.
4. This bill requires a great deal of new information to appear on the label, such as "nano-scale" and other "scale-specific" information. Where on the label are we to put all of these newly created "ingredients" and other additional information? As an answer, the bill requires the Secretary of Health and Human Services to issue regulations for small cosmetics packaging within six months of enacting the legislation, thus dodging this very important concern until after the bill has passed.
5. Most agree that MSDS reports are important, but the authors of this bill demonstrate a fundamental lack of understanding of federal regulations by requiring companies to carry MSDS reports in any language that is requested. Since OSHA requires companies make an MSDS report available within a reasonable length of time after it is requested, it is reasonable to assume companies will need to anticipate the many languages in which the document could be requested. What if a customer requests an MSDS in Cherokee, Swahili or American Sign Language? MSDS translations can cost up to a thousand dollars per product for each language and OSHA requires MSDS to be updated at least once every five years.

This ill-conceived proposal widely misses the mark and is not the progressive legislation it pretends to be. After reading this bill one gets a strong sense the authors don't understand the cosmetics industry or existing regulations governing our industry. Instead, this bill appears to be driven by misinformation generated over the last decade by anti-cosmetic activist groups. It may only be coincidence, but this proposed bill also grants extraordinary power to these same activist groups. They will be awarded the power to directly petition the Secretary of Health and Human Services to prohibit or restrict any ingredient. These groups will also be granted the somewhat cryptic sounding-power to request the Secretary "to add an ingredient to the list of contaminants...".

If you believe that H.R. 2359: Safe Cosmetics Act of 2011 is not the correct approach for ensuring cosmetic safety, please consider signing this online petition: <http://www.thepetitionsite.com/1/no-2-sca-2011/>. Also, you can contact your local Congressperson or Senator and let them know how you feel. One easy way is by going to this congressional website, Open Congress <http://www.opencongress.org/bill/112-h2359/show>.

This issue is far too important for our industry to allow such an ill-conceived bill to pass unchallenged. Everyone in the industry – and our consumers – stand to lose if we allow this bill to pass.

(1) See *Personal Care Truth* for a detailed analysis of H.R. 2359 <http://personalcaretruth.com/category/legislation/>

## Dinner Hour

...continued from page 1

### About Our Speaker

Jean-Philippe Cosson earned a degree in biochemistry and an executive master in business from ESCP-EAP in Paris. He joined SILAB in 1989 during its early stage of development in natural cosmetic active ingredients, which today represents the entire business of the company.

Initially having responsibilities into the French market, he developed the European market through distributors and implanted SILAB's

business into the United States in 1995. Then, under his involvement; the company extended its activities in Asia and South American platforms.

Taking over the Global Marketing and Sales position in 1999, Jean-Philippe is leading the relationships with key players, he manages the sales team based in France and he directly drives operations and technical support to SILAB China and to SILAB Inc.

## Educational Hour

...continued from page 1

In this metabolism process of cellular aging, two processes contribute mainly to a rapid decrease of the extracellular matrix: (i) the rate of synthesis of 3D polymeric structure of the skin such as collagen or glycosaminoglycans (including hyaluronic acid) becomes less important, (ii) the spontaneous degradation of the extracellular matrix is increasing as a result of an increased rate of free radicals that depolymerize hyaluronic acid and induce the release of enzymes hydrolyzing the different types of collagens. Thus, the skin extracellular matrix weakens, causing a collapse of its structure and the appearance of wrinkles and fine lines. To support and strengthen the essential metabolic functions of the skin, it is essential to maintain or even increase the rate of synthesis of skin structural elements, and/or to protect it against environmental stress, but it is all the more interesting to act in a complementary fashion on both synergistic phenomena at once.

LibraGen laboratories have analyzed several processes of skin aging at the metabolic level. Specialized in the development of highly sophisticated synthesis methods for the production of active molecules (also called biocatalysis and green chemistry), LibraGen's researchers have adapted some molecules and natural products to the needs and constraints of cosmetic products to stimulate cellular activities or to protect cells during senescence phenomenon. These compounds open the way for new approaches and concepts for skin care and prevention of aging. Examples of these

new molecules and their metabolism effects on skin cells will be discussed during this presentation.

### About Our Speaker

Fabrice Lefevre is a biotechnology engineer, graduated from the National Institute of Applied Sciences. He then received his Ph.D. in molecular biology and protein engineering at the University of Toulouse. Dr Lefevre has more than 17 years of industrial experience in different fields of application, with a special focus on biocatalysis, pharma and green chemistry. Before joining LibraGen as Chief Scientific Officer, he held the position of VP CSO at Protus, a French biotechnology company focused on extremophile micro-organisms, for which he developed the major technology platforms for enzyme screening and directed evolution.

Dr Lefevre is now leading LibraGen's Scientific and Technical marketing activities at Libragen, the French R&D subsidiary of Induchem group, for the development of innovative active cosmetic ingredients.

He has extensive experience in the project management of industrial and EU projects, as well as projects in partnership with university laboratories both in France and overseas.

Being a guest speaker in Universities and Engineer Schools, he is the author of reference scientific papers, book chapters, and of more than 25 patents, many of them being granted in the United States and Europe.

## New Members

### Hospitality Corner

The California Chapter of the Society of Cosmetic Chemists would like to welcome the following new member to our Chapter:

Maily Tran – *Skinn Cosmetic Development Labs, Inc.*

Please greet our new members at upcoming meetings and events. Do you know a new member? Contact Tina-Marie Lesko at [tmlesko@presperse.com](mailto:tmlesko@presperse.com) so we can include them in the Hospitality Corner for future Cosmegrams.

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- **BUSINESS CONNECTION LEADER (#1107-02)** - The Clorox Company, Pleasanton, CA. An immediate opening for an experienced, entrepreneurial technology or product developer to join our innovation team. Key responsibilities include delivering new partner options and external innovation opportunities to build growth and help shape strategies for Cleaning Home Care businesses. You will develop close familiarity with business unit strategies and create options for impactful growth through individual scouting and by engaging the networks and capabilities of the Open Innovation Networks team. Requirements: BS in chemistry, engineering or related area; advanced degree preferred. 8+ years experience in technical roles; experience should include technology and/or product development tied to a successful commercialization. External orientation. Broadly networked; ability to establish new relationships. Please see full job description and send resumes to: <https://www3.apply2jobs.com/Clorox/ProfExt/index.cfm?fuseaction=mExternal.showJob&RID=61&CurrentPage=1>
- **R&D CHEMIST (#1107-03)** - City of Industry. Physicians Formula is an innovative cosmetics company. We develop, market and distribute innovative, premium-priced products. Seeking R&D Chemist to develop new formulas for color cosmetics and skin care products; transfer new or modified formulas from laboratory to production; perform stability/compatibility tests on new formulas; maintain/improve overall product quality; create ingredient lists according to FDA/INCI guidelines; review formulas/raw materials for compliance with International Guidelines; keep current with new ingredients/technologies. BS in Chemistry or other scientific discipline; two years' experience in cosmetics formulation. Microsoft Office. Knowledge of SOPs, GMPs and FDA regulations. EOE. Email resume to [human.resources@physiciansformula.com](mailto:human.resources@physiciansformula.com).
- **R&D COLOR CHEMIST (#1107-05)** - Seeking R&D Chemist (Color Cosmetic Chemist) to develop new formulas for color cosmetics and skin care products; transfer new or modified formulas from laboratory to production; perform stability/compatibility tests on new formulas; maintain/improve overall product quality; create ingredient lists according to FDA/INCI guidelines; review formulas/raw materials for compliance with International Guidelines; keep current with new ingredients/technologies. BS in Chemistry or other scientific discipline; minimum 5 years' experience in color cosmetics formulation. Knowledge of SOPs, GMPs and FDA regulations. Please email resume @ [ellahd@neutraderm.com](mailto:ellahd@neutraderm.com).
- **QC ASSOCIATE (#1107-06)** - We are currently searching for a QC Associate to ensure the QC lab functions and production inspection performed are in compliance with cGMP. The incumbent will: be responsible for supervising the operation of the Bulk QC Laboratory as well as performing physical tests on in-process bulk material, preparing lab batch adjustments and performing wet chemistry analysis, approving in-process batch adjustment and approving finished bulk product; perform all QC Line operations and work within the required lead times and due dates, accommodate QC and Production operational priorities, perform out-of-spec investigations, and oversee QC line inspectors related technical and administrative tasks. Requirements: Complete knowledge of pharmaceutical and cosmetics lab operations, cGMP, GLP, FDA. Minimum of 3 years exp. as a QC in the cosmetics and pharmaceutical industry. Please email resume @ [ellahd@neutraderm.com](mailto:ellahd@neutraderm.com).
- **R&D CHEMIST FORMULATOR (#1107-07)** - A cosmetic manufacturer located in Chatsworth CA, is looking for a formulating/R&D Chemist. We are specifically looking for someone who can take projects from concept to full production process. Our Company is a registered California Cosmetic Manufacture and approved FDA facility. Requirements included but not limited to Degree in chemistry. Minimum of 5 years experience working in the Cosmetic Industry – Formulating Hair Care, Skin Care, Personal Care and OTC Products. Development of new cosmetic products and reformulation of existing formulas. Team Player. Skills: Must have excellent decision-making and problem solving skills. Must be a self-starter, critical thinking skills, and roll up your sleeves "can do" attitude-multi-tasker. Please email resume to [Arda@advancedcosmeticlabs.com](mailto:Arda@advancedcosmeticlabs.com).
- **R&D CHEMIST (#1107-08)** - Northern CA (Bay Area) skin-care manufacturer hiring now! Candidate must have 3-5 years of R&D experience in skin care including OTC cosmetics and hair care. Must be knowledgeable of FDA/COLIPA/ICH regulations and must be able to perform daily basis bench work formulations. Must have sound knowledge of raw materials being used in cosmetic and personal care products and must be able to work with enthusiastic, result-oriented, and highly motivated persona under a stressful environment. Salary TBD; offering 401k; medical benefits. Contact: [Harry@allurelabs.com](mailto:Harry@allurelabs.com) for further info.

**SCC Contact Information Changes**

If you are a member of our chapter and your information (ie. name, address, company, phone numbers, email address) has changed, please make sure you contact us with the new information so we can update our database. If changes are not sent to us, you may not be getting your newsletter, meeting notices, course registrations, etc. Please contact Tina-Marie Lesko at [tmllesko@presperse.com](mailto:tmllesko@presperse.com) with any changes.

**National SCC Contact Information Changes**

As you know many SCC Members change jobs, relocate, etc. each year. Many do not know who to call or how to go about making an address change. The National Society of Cosmetic Chemists has created a form that is now available on the SCC website which allows members to make changes to their information and it is sent to us here at National. For right now, Members can access the change form under the Contacts Tab on the website. The actual link address is as follows: [http://69.36.162.213/SCC\\_Address\\_Change\\_Request.htm](http://69.36.162.213/SCC_Address_Change_Request.htm)

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### POSITIONS AVAILABLE

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- **R & D CHEMIST (#1108-02)** - We are looking for a Chemist to help us develop a new line of bath & beauty products. We specialize in Olive Oil, and Clay based products. We will be manufacturing the products in house in our facility in Gardena, CA. We are looking for someone who is creative, and has an experienced background in bath and beauty products. You will be required to provide us with all the necessary technical data and stability testing to back up each product. This is a part-time position, and we are looking to fill this position ASAP. Compensation is based on experience. Please send your resume to [jeremy@oliviacare.com](mailto:jeremy@oliviacare.com).
- **REGULATORY SPECIALIST (#1108-03)** - Location: San Francisco. To collaborate with the product development team in the area of regulatory support and testing of projects. Act as a liaison between the labs and the Regulatory Manager, including preparation for clinical and safety testing, confirming labeling regulations, reviewing ingredient and fill weight claims, assembling requirements for QVC pre-market checklists, and assisting Manager in international regulations and quality issues and international product registration. Required Qualifications: Bachelors of Science Degree required - Chemistry background a plus, 2-4 years of regulatory experience Understanding of FDA regulations and CTFA guidelines for development. Please send your resume to [gchicoine@bareessentials.com](mailto:gchicoine@bareessentials.com) and visit our website at: [www.bareessentialscareers.com](http://www.bareessentialscareers.com).
- **PRODUCT INNOVATIONS MANAGER (#1109-01)** - Autumn Harp, a personal care contract manufacturer in Burlington, VT, seeks a Product Innovations Manager. The Innovations Manager will strengthen Autumn Harp's new product development planning process to meet short-term and long-term innovation needs; work collaboratively with the Sales Team to service major accounts with innovative product samples, strong concepts and excellent service; create formulation of hydrous and anhydrous formulations including hot and cold pours, skin care formulations and color cosmetic products. The position will also monitor OTC formulas including SPF sun care and acne treatment products. He or she should also have over 10 years of experience with formulating emulsions, natural and sun care products in the cosmetics or like industry. Bachelor's degree in Chemistry is required along with a minimum of 10 years of industry experience. Please send a cover letter and resume to: [Jobs@autumnharp.com](mailto:Jobs@autumnharp.com).
- **R&D CHEMIST (#1109-02)** - Culver City, CA. Seeking a R&D Chemist to lead the formula development of our personal care products through innovation and delivery of new products and technology. Optimizes cost, time, quality, and performance of new and current products. Minimum 5-8 years professional experience in Cosmetic industry developing personal care products including face, body, hair care, OTC drugs, house cleaning, PET care, USDA, and therapeutically products. Advanced degree in Chemistry is preferred. Familiarity with US-FDA, EPA-USDA, and cosmetics regulatory requirements. Knowledge of natural /organic formulation is preferable. Apply directly at [www.hain-celestial.com/careers](http://www.hain-celestial.com/careers) EOE
- **COSMETIC CHEMIST (#1109-03)** - New Look Cosmetics is seeking a Cosmetic Chemist. Qualified candidates for this position requires at least 5 years of experience in formulation of liquid and powder color cosmetics and a minimum of 1 year experience working in a cGMP environment. This position will be responsible for performing analytical and Stability Tests and preparing regulatory documents as needed. Candidate must be able to work under minimal guidance and a team player. Must have strong communication skills, technical writing ability and be computer literate. BS degree in Chemistry or related field is required. If interested, send resume and salary history to [jobs@newlookcosmetics.com](mailto:jobs@newlookcosmetics.com).

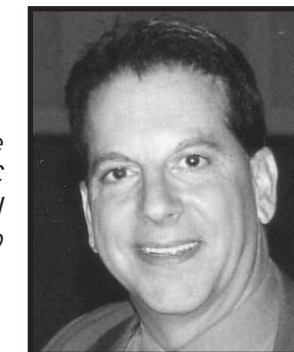
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### Advice to the Lab Lorn

John Garruto  
President, Free Radical Technology – Editor



“Advice to the Lab Lorn” is intended to offer advice, pertinent information or maybe just solace, for confusing, challenging or downright murderous issues facing SCC members in their labs. Send us your questions at [lablorn@caliscc.org](mailto:lablorn@caliscc.org) and we'll track down an authority or two and get back to you in the next offering of the Lab Lorn. We won't publish your name for all to see. Your secrets are safe with us.

**Q:** We have a moisturizer formula that is made with a glucoside-based liquid crystal emulsifier that requires homogenization to correctly process the emulsion. Our contract manufacturer does not possess a homogenizer. Aside from changing manufacturers or the formula, do you have any recommendations for an alternate method?

**A:** Let's look at a typical emulsion (o/w) based on traditional ethoxylated emulsifiers. We typically heat both the aqueous and lipid phases to the proper processing temperature (generally 75-85°C). The lipid phase is then added to the aqueous phase and the product is mixed and cooled according to the batching procedure. When working with glucoside-based emulsifiers, the initial processing is roughly the same. The batch temperature after phase introduction is approximately 75-80°C and there is very little hydrogen bonding at this point. We then normally apply some form of high shear mixing to the emulsion to reduce particle size and to insure stability. The batch is then cooled and mixing should be done slowly\* with very little shear to insure the orderly formation and distribution of liquid crystals comprised of both long chain fatty alcohol and spherical micelles.

One technique that we have employed successfully without the addition of high shear or homogenization is to add the water phase slowly to the oil phase of glucoside-based emulsion systems. Thus, these emulsions that normally, at room temperature, have an HLB of approximately 12 now have an HLB of somewhere in the vicinity of 5. They want to form water-in-oil (w/o) emulsions and in fact, do. As the emulsion cools, hydrogen bonding and HLB increases. There is a temperature, the Phase Inversion Temperature (PIT), at which the emulsion now inverts from w/o to o/w emulsion. When this occurs, the particle size will decrease and the distribution of these particles narrows. Both conditions make for an aesthetically acceptable, stable emulsion.

Naturally, you will need to verify the procedure in your own lab. This method may not work with all glucoside-based emulsions. You should perform all the usual stability testing to insure that the phase inversion process is acceptable for your product.

*\*One of the most commonly occurring processing problems that I have encountered over the years with liquid crystal emulsion systems is the application of rapid mixing or high shear forces below a process temperature of about 60°C. High Shear agitation below this temperature can disrupt the orderly formation of liquid crystals and the resulting emulsion may exhibit a lower viscosity and a greater propensity for instability.*



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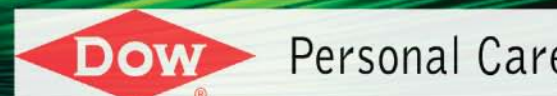
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