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Intermountain West Society of Cosmetic Chemists

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Concentrated Liquid Laundry Detergents

Heavy-duty liquid laundry soils and stains.

Detergents were introduced in the US in 1956. Laundry detergent had traditionally been a powdered or granular solid, but use of liquid laundry detergents has gradually increased over the years. Liquid detergents have several advantages over powdered detergents i.e. readily dissolve in water, leaving no powder residue on clothing; easily dispensed from the package;

no adverse effects after exposure to moisture in the air (no "caking" when stored in high humidity conditions); and pretreatment of clothing by applying directly on

Typical liquid detergents contain surfactants and may contain various additional ingredients such as builders, colorants, fragrance, enzymes, optical brighteners, anti-redeposition agents, processing aids, oxygen bleach, dye transfer inhibitors, defoamers and/or chlorine scavengers. The surfactant's

primary function is to wet the surfaces of fabrics as well as soil (reducing surface and interfacial tension), helping to lift the stains off the fabric surface, and stabilizing dirt particles and/or emulsifying grease droplets. Most

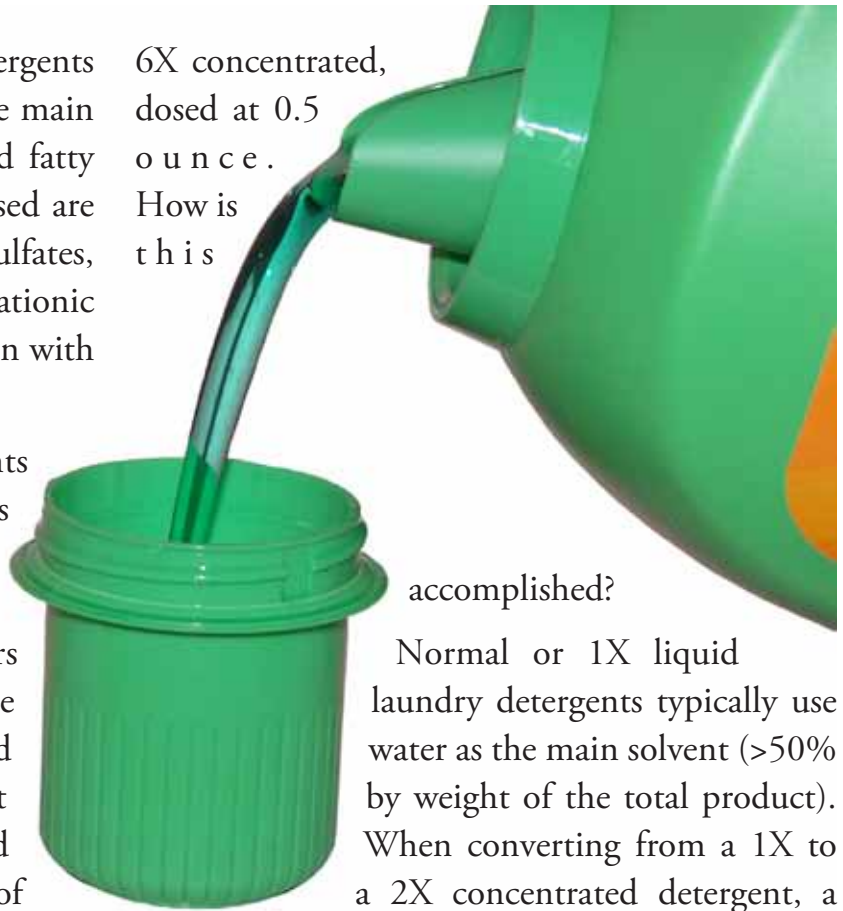


Concentrated Liquid Laundry Detergents Continued:

common surfactants found in laundry detergents are nonionic and anionic surfactants. The main nonionic surfactants used are ethoxylated fatty alcohols. Common anionic surfactants used are sodium alkylbenzene sulfonates, alkyl sulfates, and alkylethoxylated sulfates. Typically, cationic surfactants are not used due to flocculation with anionic surfactants.

Not long ago retail laundry detergents used to recommend dosages of 3 ounces per medium wash load and could be termed as 1X or normal concentrated laundry detergents. About three years ago, manufacturers began offering more concentrated laundry detergents termed as 2X concentrated detergents, dosed at 1.5 ounces, and 3X concentrated, dosed at 1.0 ounce. Recently, a small number of liquid laundry detergents are now available as

6X concentrated, dosed at 0.5 ounce. How is this



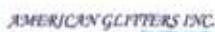
accomplished?

Normal or 1X liquid laundry detergents typically use water as the main solvent (>50% by weight of the total product). When converting from a 1X to a 2X concentrated detergent, a manufacturer can replace a portion

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Concentrated Liquid Laundry Detergents Continued:

of the water with an equal amount of surfactants and other non-water ingredients. For example, the surfactant and non-water ingredients in a 1X detergent could be doubled and an equal amount of water be removed to produce a 2X concentrated detergent. By doing so, a manufacturer can produce the same wash liquor from a 1.5 ounce dose of a 2X as obtained from a 3 ounce dose of a 1X laundry detergent. Accordingly, if the cleaning performance of a 1X detergent was optimized, then the performance of the 2X can be expected to be optimized. By a similar procedure, manufacturers might produce a 3X, 4X, 5X, or 6X concentrated detergent. The process of producing more concentrated detergents will be limited by the amount of water and water-miscible solvents in the original 1X detergent.

Those familiar with liquid laundry detergents will recognize that other limitations occur before all the water and water-miscible solvents are removed. For instance, liquid laundry detergents

do not remain as low viscosity, readily dilutable liquids as the water is progressively removed. Instead they begin to separate into multiple phases, including highly viscous phases (gel formation). These viscous phases are not easily diluted in wash water and especially in cold wash water.

To achieve low-viscosity, single-phase, readily dilutable, highly concentrated detergents the formation of liquid crystals (gel formation) must be hindered or disrupted. Recently some manufacturers have overcome these limitations and super concentrated liquid laundry detergents, such as 6X concentrated, are now available.

Denette Tippetts,

Principal Product Development Chemist
Melaleuca, Inc

Denette received President's Award 2008 for recognition of commitment to excellence & outstanding contribution to Melaleuca's success. She graduated with Bachelor's Degree of Science, May 2001 from Idaho State University.

Sha had a patent Application for Concentrated Laundry Detergent filed August 2008.

“The process of producing more concentrated detergents will be limited by the amount of water and water-miscible solvents in the original 1X detergent.”



Denette Tippetts

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Job Posting: Cosmetic Chemist – New Product Development Crabtree & Evelyn

Summary: This position will be responsible for completing projects within the Product Development laboratory. Daily duties include formulation of new products, design and execution of product testing, data management and technical support for other functional groups.

Essential Duties and Responsibilities: Includes the following. Other duties as assigned by Lab Manager.

- Conduct research on new formulations and competitive products.
- Develop concepts for new products based on individual ideas.
- Formulate stable new products based on marketing briefs and/or individual concepts.
- Prepare (or supervise the preparation of) laboratory batches
- Maintain accurate records of all formula development and specifications.
- Maintain stability files for all approved formulas in company database.
- Prepare ingredient listings for packaging and graphics.
- Work with the Purchasing Department and provide them with applicable new chemical data, vendor information and specifications.
- Transfer approved formulations and manufacturing procedures to internal manufacturing group and/or third party manufacturers.
- Communicate and interface with Production on manufacturing procedures. Provide technical support as needed.
- Provide color standards and finished product specifications to Q.A. Laboratory on new formulas.
- Problem solve for Product Development group.

Qualifications: The ideal candidate must be a motivated individual capable of working with little supervision. Candidate must be comfortable handling multiple new projects in parallel. Candidate will be expected to provide support to the Product Development group, as well as technical support to the organization. Should be able to research and formulate new products as directed by the Lab Manager. Experience in Personal Care and Cosmetics industry preferred. Must have knowledge of current and relevant industry information (i.e.: raw materials, global regulations, etc.).

Education and/or Experience: Minimum requirements listed below:

- Bachelor's degree in Chemistry, Chemical Engineering, or related discipline. Previous course work in cosmetic science is preferred.
- Minimum of two to five years experience in a cosmetic laboratory with formulation and product development experience.

Interested candidates should Email resume and cover letter with salary requirements to hr@crabtree-evelyn.com.

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Message from the National Treasurer of the Society of Cosmetic Chemists

Greetings!! As I am mid-way through my FOURTH year as National Treasurer (and seventh year on the Board of Directors), I am encouraged by the progress ALL of the Chapters in our Society have made recently. Some of the highlights include:

* Remembering that we are first and foremost a SCIENTIFIC organization, our Society continues to succeed due to the strong technical content presented at both the national and local levels. There has been great communication between Chapters identifying high-quality speakers and presentations,

and these speakers have been very accommodating in giving presentations at multiple Chapters.

* Our Chapters are financially healthier now than at any time in recent history. This means that Chapters have more flexibility in planning activities, including subsidizing costs for meetings (or even have free meetings for their membership).

* Participation from our younger members appears to be increasing. I am seeing many new faces at national meetings, in elected and non-elected SCC Board positions, and even appearing on podiums giving presentations. This is vital to the health of any organization, and the SCC is no exception. Whether you are a General member or National Affiliate – there are



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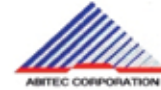
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Message from the National Treasurer of the SCC Continued:

always ways you can help your local Chapter! However, due to our past successes, there are some opportunities for improvement:

* Attendance for our Annual Scientific Seminar (commonly referred to as the Mid-year meeting) continues to fall short of expectations. The current approach of having each "Area" for the SCC host this meeting starts this June 3-4 in Long Island. I strongly encourage all SCC members to consider attending this seminar, which has an excellent line-up of topics and speakers. For details, check out our website: www.sconline.org.

* Attendance at LOCAL Chapter meetings continues to be an area of concern. Chapters are becoming more creative in trying to address this concern: some are changing evening meetings to lunch meetings, while others are picking venues that are more appealing to their membership We



have seen some success from these different approaches. The best way to success is keeping the quality of the presentations at a high standard. And, as a former SCC President always said: "Science Continues at the Company!" We hope that attendance at both local and national

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Message from the National Treasurer of the SCC Continued:

meetings translates to success at the “bench,” which will lead to continued corporate support.

That being said, in the recent struggling economy, our Society continues to thrive! Our membership numbers continue to grow, and the science shared at all levels is stronger than ever. As a “volunteer” organization, I am amazed at how many I see spending their own “free” time (and money) to contribute to the success of the SCC, and this, above everything else, is really what makes our Society what it is.

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Summer Scientific Seminar and Golf Outing

Join us for a day of learning and a day out on the green in some of the most picturesque country Utah has to offer! Don't miss this opportunity to network and enhance your education.

August 23rd - Hotel Park City 3rd Quarter Technical Meeting

August 24th - Annual Golf Outing Wasatch State Park, Midway Utah

We have exclusive hotel deals with Hotel Park City and the Park City Marriott.

For specifics please visit www.imwsc.org



2010 Young Scientist Award

In 1993 the SCC initiated a program to recognize the achievements of the younger scientists working in the cosmetic industry called the Young Scientist Award. This Award consists of a scroll, suitably inscribed, which shall be presented annually to one scientist from each cosmetic manufacturer, supplier, or other organization in the cosmetics and personal products industries. The cost of this award is absorbed by the Society. The selective criteria are left to the judgment of the respective companies. The recipient must be a Member or National Affiliate in good standing of the Society of Cosmetic Chemists for at least one year and shall have been employed in the industry for no more than ten years. The recipient may only receive the Award once. Recommendations should be submitted directly to the Society of Cosmetic Chemists, which shall verify the eligibility of the recipient.

The presentation of the Award is made annually during the fourth quarter and can be accomplished by one of two methods. These include public presentation at a Chapter meeting or by the individual companies who choose to make private presentations. This Award has been designed to recognize the achievements of younger scientists while giving the respective companies the opportunity to encourage professionalism in their employees.

If your

company would like to take part in this program, please contact Bill Cowen at the National Office to request the nomination form and return it to the SCC office by July 1, 2010. After the Society has reviewed the eligibility of your nominee you will be notified of the Award and the scroll will be prepared for presentation according to your instructions.



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Up Coming Events

- June 3-4, 2010 Annual Scientific Seminar
- Chapter Meeting: August 23rd
- IMWSCC Golf Outing August 24
- Chapter Meeting: Nov. 4th, 2010
- Dec. 9th-10th, 2010 Annual Scientific Seminar NYC

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You can get updates and articles on the web!

<http://www.imwscc.org>

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