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ISCC NEWSUPDATE is a publication of The
Indian Society of Cosmetic Chemists

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Scientific/Technical Articles and Advertisements are
welcome

Disclaimer: The views and opinions expressed in the
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reflect the official policy or position of ISCC.

Presidents Message:

Greetings to all our readers. I hope the New Year has started in a productive way and that 2023 will be a profitable year. We have a range of exciting programs for the coming months, starting with the ISCC Conference at HPCI.

Our industry has shown signs of recovery post the pandemic. However, there has been a paradigm shift in the way consumers now buy products and what they expect from them. Cosmetic regulations have changed, and the Indian regulators are moving towards being more closely aligned with the International Safety Standards.

Therefore, the Theme of the ISCC conference is Post Pandemic Trends driving Home and Personal Care Growth. Day 1 will have international speakers giving us their views on international regulations. Day 2 will have Industry experts share trends shaping the choice of ingredients, manufacturing processes, packaging and formulations as well as global beauty trends. We look forward to welcoming you at our ISCC Conference.

Our AGM in March will have a lecture session included. A celebration of our 20 years as a Society will follow, honouring our Society's founding members. We would like all our members to participate give their suggestions to make it an unforgettable event.

In 2024, we have the honour to host the ASCS Conference, a platform to showcase the research and work being done in India. I appeal to members to send in their research Papers and Posters.

In September 2022 I attended the 32nd IFSCC Congress in London, where I had detailed discussions with the IFSCC Governing body and the Asian Society representatives. We will be getting speakers to conduct an educational program courtesy IFSCC later this year. Members can benefit from the informative Webinars conducted by IFSCC every month. The new IFSCC Council would like to see our community of members grow and be active internationally. I urge all of you to take advantage of these initiatives, so that India can become an influential member of the International community of Cosmetic professionals.

Best wishes and look forward to more meaningful interactions with all our members.



M. Mullick

Monisha Mullick
President ISCC

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Indian Society of Cosmetic Chemists (ISCC)

A Must for All Cosmetic Professionals

BENEDICT M MASCARENHAS,
ISCC, HON Secretary

In-Cosmetics Global 2022 Exhibition & Conference - Paris, France from 5th to 7th April 2022. Vinay Kumar Singh, Joint Secretary of ISCC made a presentation on "Innovation From Extracts to Bioferments" in the Technical Seminar on 6th April 2022.

In-Cosmetics Asia 2022 Exhibition & Conference - Bangkok, Thailand from 1st to 3rd November 2022. Vinay Kumar Singh, Joint Secretary of ISCC made a presentation on "Black Rice Ferment Filtrate (Kopryza) in Beauty" in the Technical Seminar on 1st November 2022, which was well attended.

IFSCC Congress 2022 – London – from 19th to 22nd September 2022. Monisha Mullick, ISCC President attended the Congress on behalf of ISCC. Also, Poster titled 'Augmentation of the bioactive potency of natural ingredients by fermentation yielding added benefits of prebiotics and post biotics to maintain the skin microbiome balance' was submitted by Vinay Kumar Singh, Joint Secretary of ISCC through his Company Kumar Organics at this event.

ISCC Life Members WhatsApp Group – We have recently launched the Official ISCC WhatsApp Group for Life Members in order to facilitate better interaction on a regular basis among the Members of the Society. In case, you are Life Member of ISCC and have been missed out from being added to the group, kindly contact cosmeticchemists@yahoo.com or +91 9324321939 for having your contact details updated.

20th Anniversary Celebrations - The Indian Society of Cosmetic Chemists commenced its journey on 31st July 2022. As we complete 20 years, this certainly calls for a celebration. The Anniversary Celebrations are scheduled for May 2023. Kindly check your Email & WhatsApp Group for further updates in this regard. This is also an opportunity to also enhance the Membership of our Society in a run up to the Anniversary Celebrations through the 'Each One – Get One' initiative.

ASCS 2024 – The Indian Society of Cosmetic Chemists has been offered the privilege to host the Asian Society of Cosmetic Chemists (ASCS) Event in 2024. This is a prestigious opportunity for the Society and the Indian Cosmetic Fraternity. Nonetheless, this calls for a lot of planning and support from the ISCC Members as well as the Indian Cosmetic Industry at large. Success of this event would be an important milestone in the growth of our Society on the International Stage. Further details will be communicated through Email & WhatsApp.

Seminars & Workshops – Various Seminars and Workshops covering Formulation Development, Instrumental, Sensory & Performance Evaluation, Claim Substantiation, etc. are in the offing. A more detailed calendar would be shared in the Anniversary Issue of the ISCC Newsletter. Those wishing to conduct such workshops in future may write to the Society, so that this may be planned accordingly.

Benedict Mascarenhas
(Hon. Secretary – ISCC)

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INDUSTRY NEWS



Algafiller promotes skin regeneration

The beauty industry is witnessing a transformation as far as ingredients used in products are concerned. From chemical-induced ingredients to safe ingredients, the trend is moving towards natural ingredients. Moving in this direction, Agrimer uses an exclusive ingredient called Algafiller that is extracted from a self-regenerating seaweed native to France. Algafiller has the properties to heal, repair skin tissues and is also known for its moisturising properties. Claimed to be vegan, it is free of preservatives and is an absolutely natural ingredient. Algafiller addresses issues leading to loss of tissues as a result of age. Issues that can be tackled using Algafiller include hollow cheeks, fine lines, sagging around the face, wrinkles etc.



Taiki introduces eco-friendly alternatives for make-up sponges

The composition used in beauty products has greater amounts of petroleum-induced ingredients since ages. Sponges used for cosmetic purpose used ingredients that led to infections due to bacteria. Some also caused allergies. Taiki, one of the leading manufacturers and private label of make-up sponges took matter into their hands, introducing alternatives for these ingredients, which is reusable and reduces allergic reaction. NBR (Nitrile Butadiene Rubber) or PU (polyurethane) are alternatives that can be derived from natural fossil resources. Ecoporous 70 is another alternative proposed by Taiki sourced from the plant of castor oil and corn. Advantages of using Ecoporous 70 include properties like softness and durability. Bamboo is another ingredient suggested by Taiki for sponges, reiterating its eco-friendly approach.



Biodegradable packaging and its impact claims faulty

Brands are taking the fight to reduce plastic in their packaging with biodegradable options. Environment-friendly options are few but far but brands are taking the initiative to opt for environment-friendly initiatives for packaging beauty products. According to a British survey conducted at University College London, the impact of biodegradable and compostable plastics, which are popular these days on the environment needs to be assessed for its proficiency. Conducted in UK, the survey aimed to understand if the consumer really showed interest in purchasing products with products packages with 'biodegradable' labels. Results revealed that consumers had a tough time understanding these terms and purchasing them for their efficacy was completely questionable.



Blue whales face extinction and threat from plastic pollution

A recent research reveal that plastic pollution in the

sea is posing a great threat to blue whales. As more and more plastic is being thrown into the ocean, the danger is estimated to be much bigger than ever thought. From mountains to human blood, traces of plastic are being significantly found almost everywhere. Home to whales, the biggest animal on earth, the ocean is being contaminated with plastics to a large extent. In fact, it has been found that a certain specie called Humpback consumed almost 4 million plastic pieces regularly.



Oysters enter into cosmetic formulations and prove their worth

Oysters are loaded with thousands of benefits. The cosmetics industry is already extracting amino acids, vitamins, minerals, proteins, etc., from oysters

to improve the firmness and brightness of skin, protection against signs of aging etc. Beauty brands interested in molluscs pull out every bit from flesh to shell, claiming they are one step away from diverse benefits. Natural cosmetics are best for anti-aging, remineralizing, purifying, and cleansing of skin and hair. Recently, the French brand Edulis has released cosmetics made with oyster oil extracts.

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Olay launches moisturiser power packed with Niacinamide and Amino Acid Peptides

Olay has recently launched a powerhouse moisturiser infused with 99% synthetic niacinamide and amino acid peptides.

Olay Niacinamide+Peptide 24 Face moisturiser has some of

the trending skincare ingredients of 2023 and is based on extensive research catering to consumer demands. According to Dr. Rolando Wilkerson, Senior Director in Beauty Care at Olay and Principal Scientist on the R&D team, all of Olay's products are based on consumer demand and opinions. The formulation and ingredients are chosen as per the needs of the consumer. The latest powerhouse product was created with this aspect in mind using the potent niacinamide. It was produced after 28 days of niacinamide clinical study along with a two-week consumer testing to understand its benefits. The new product has proven to show results in less than a week including improved skin complexion and reduced fine lines.



India leads in men's beauty product launches in APAC markets

According to Mintel report, India is the leader in men's beauty product launches in from the last five years upto

July 2022 in the Asia Pacific region with 20% beauty products launched were facial care for men. China was second at 15%, while Japan stood at 10%. Though the Indian market is smaller than its counterparts but it is expanding at a much faster pace with the Indian men grooming section valued at over Rs. 10,000 crore. The report stated that 1-in-5 beauty and personal care products in India was for men. The products range includes face creams, moisturisers, at-home spa treatment products, hair removal creams and beard softeners. Most of the growth is due to shaving cream, gel and foams, bar soaps, body washes, shower gels and fairness creams, but hair care products like hair gels, serum and hair styling products are popular too.



Fixderma Nigrifix cream treats rare skin pigmentation condition

Fixderma's Nigrifix, a cream, which makes up for 60% of its sales, treats a common skin pigmentation problem, acanthosis nigricans. This skin problem leads to a dark discolouration of the skin in the creases and the folds, especially armpits, neck, and elbows. It is one of the outcomes of polycystic ovarian disease (PCOD), obesity and it could also be genetic. Now, the brand

is in the process of getting a patent for it.



Plum Releases A New Range Of Products With Hemp

Plum launches the Hemp range of skincare products as it has anti-inflammatory properties and is a good source of antioxidants. The Hemp Cleansing Oil has Squalane and Bisabolol that helps remove and dissolve impurities and makeup. It is infused with Hemp Seed Oil, which is rich in omega fatty acids 3, 6, and 9, and Lipophilic-Surfactant Blend. Hemp Seed Oil helps in strengthening and repairing the skin barrier. It also has olive-derived Squalane and Bisabolol that cleans the skin without excessive drying, giving it a smooth feel. It can be used to remove makeup and also works as a pre-cleanser in the double-cleansing skincare regime. The Hemp Face Oil is enriched with Argan Oil, Avocado Oil, and Sweet Almond Oil, helping with the hydration of the skin. The face oil is ideal to fight acne, control excess oil production, and soothe any inflammation. All the ingredients are non-comedogenic. It can be used in all seasons.



Modicare expands personal Well-ness, launches Well Gummies

Modicare Limited, one of the leading direct selling companies, is expanding its Well range with the release of 'Well Gummies'. This range is ideal for people with a busy lifestyle who cannot fulfill their nutritional and dietary requirements. The Well range has five variants including, Well Hair, Skin & Nail Gummy, Well Perfect Body Gummy, Well Detox Gummy, Well Sharp Eye Gummy, and Well Yummy-tamin Gummy. All these products are completely natural and vegan without any artificial colours, nut, soy, and gelatin.



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In Loving Memory of



Dr. Vilas Adhikari
13th September 1935 - 4th February 2023

Dr. Vilas Adhikari was a Life Member of the Indian Society of Cosmetics Chemists from its early days. Always an enthusiastic and active member, he was an integral part of most ISCC events.

He was one of the nicest persons to knowalways a smile on his face and an ever-helping attitude. As a member of ISCC from early on, he will be missed by us all !

A Ph D from Univ of Saarland, Germany, he soon joined Vitamins Division of Roche India. He gave technical assistance to several companies to develop formulations containing vitamins. The Roche division then changed hands and ultimately became DSM Nutritional Products from which he retired after many years as consultant.

He did pioneering work in the field of vitamins and his work was recognized and earned him awards and accolades. He was the Chairman of Protein Foods & Nutrition Development Association of India in 1990s and continued to be very active in association activities as Governing Board member. He was always encouraging and supporting various educational activities and loved to interact with people, for work as well as socially.

Goodbye Dr. Adhikari, we will miss you!

SAFETY AND EFFICACY EVALUATION

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- Skin Luminiscence
- Skin Moisturization
- Skin Surface Oil measurement
- Skin Pigmentation
- Skin Wrinkles
- Deodorant
- Acne
- Sun Damage
- Skin Firming
- Skin Elasticity
- Anti-Dandruff
- Hair fall-A/T ration & Hair density and many more...

Sensory evaluation

Hair sensorials

- Hair shine
- Ease of combing (wet & dry)
- Smoothness
- Bounce
- Static etc.

Skin sensorials

- Spreadability
- Denseness
- Oiliness
- Greasiness
- Stickiness etc.

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Microbial Biosurfactants: Novel Potential Green Ingredients for Personal Care Industry

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Biosurfactants are the surfactants produced by specific microbial strains by fermentation route. They are biodegradable and have better foaming, wetting, emulsifying, and dispersing properties. Recently from the global viewpoint chemical industry e.g. pharma, food, home care, personal care, petroleum etc. have recognized the potential of living cells in pre-treatment of raw materials, processing operations, product development, waste management, energy recycling and conservation. In this scenario, surfactants are increasingly acknowledged for

their wide range of applications. The huge market demand currently met by synthetic, petroleum based surfactants and also the stringent environmental guidelines, awareness to protect ecosystems have resulted in cumulative interest in microbial surfactants during a decade.

The current trend in India is to import raw materials (petroleum products) for manufacturing of conventional synthetic surfactants. The requirement of surfactant-based products is constantly increasing. Hence microbial surfactants can be a viable and

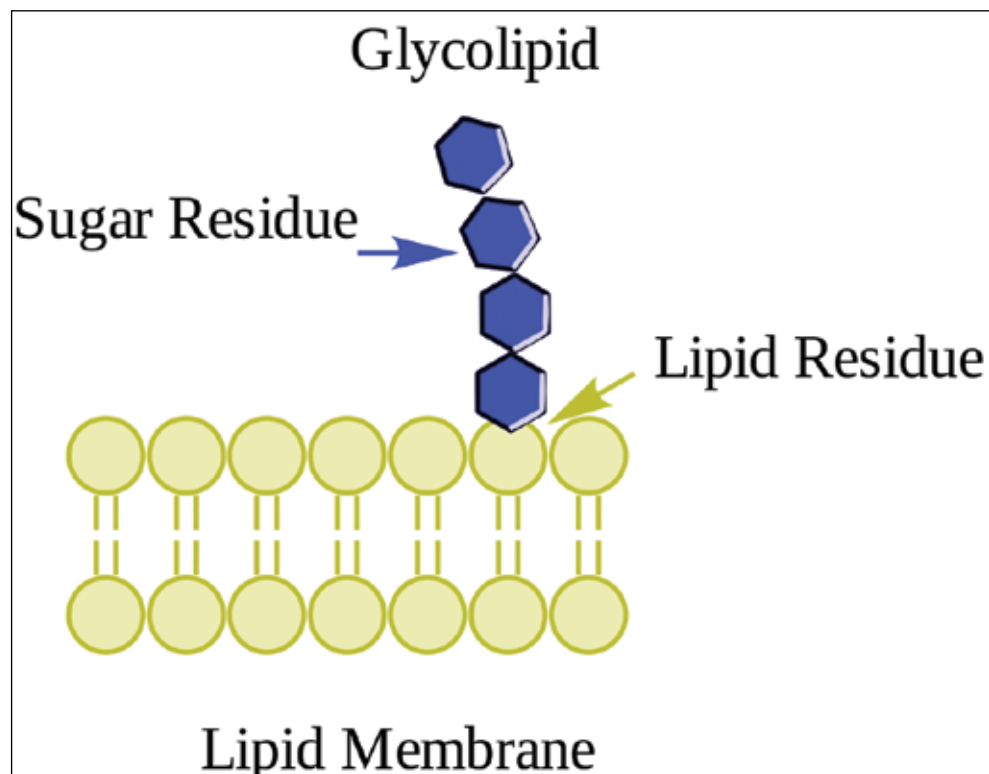
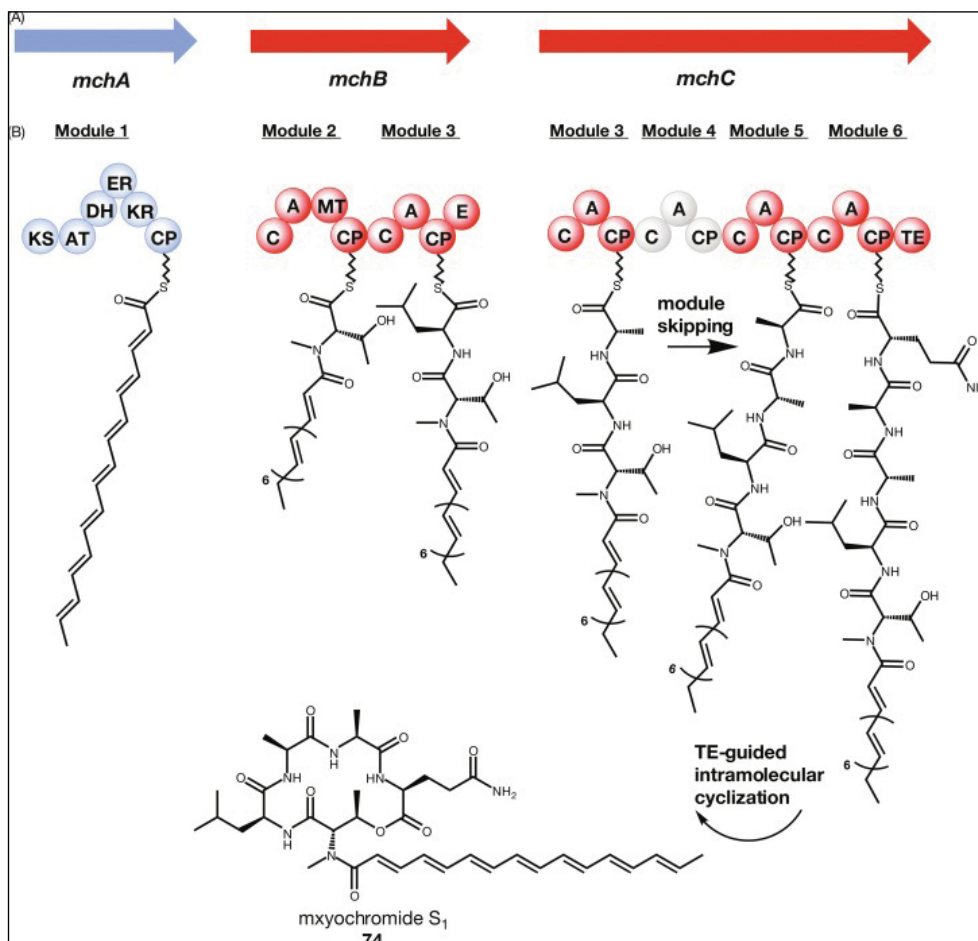
valuable alternative as they can be obtained from various industrial waste streams like glycerol from bio-diesel industry, de-ice oiled cake, waste cooking oil, waste lube oil, glycerol in the form of sweet water, soap stock and acid oil are available at relatively inexpensive cost as carbon source. India being an agricultural country has enough availability of substrates like molasses, baggasse, glycerol, used oil and de-oiled cake for production of bio-surfactants.

These molecules are secondary metabolites that are produced in exponential or stationary phase. Major nutrients required are Nitrogen

and Carbon. The minor nutrients include phosphate, calcium, potassium, etc. Their carbon source can be hydrophobic (water insoluble) or hydrophilic (water soluble). Different substrates make even the same microbe produce diverse set of isomers and different yields. It has also been seen that they give different yields while growing in nitrogen and phosphate limiting conditions.

Initial work done in the Development of Technology

Department of Oils, Oleochemicals & Surfactants Technology has established pilot scale fermentation technology for sophorolipid production. Optimization studies for rhamnolipid production using different media components has been carried out at shake flask level. Study on industrial byproduct, such as sweet water as a potential carbon sources for commercial rhamnolipid production has been carried out. Other notable works includes department has done extensive research in the arena of synthesis and physico-chemical characterization of different surfactants. Some of the work done involved the synthesis of fatty alcohol (normal and guerbet i.e. branched) sulfates, quaternary ammonium compounds. The work was also carried out on the development of biosurfactants, which are sugar based



surfactants like alkyl polyglucosides and surfactants synthesized from cashew nut shell liquid. The isolation and purification was carried out by extraction, filtration, adsorption, low temperature solvent crystallization and centrifugation.

The biosurfactants market, on the basis of chemical composition and nature of bacteria used for fermentation, is classified into two groups, namely, glycolipids and lipopeptides biosurfactants. Glycolipids are the most widely studied and commercialized class of microbial biosurfactants.

Glycolipids are the well-defined most considered type of biosurfactants. They are composed of carbohydrates (hydrophilic moiety) linked with either hydroxy aliphatic acids or long-chain fatty acids (hydrophobic moiety). Glycolipids are further segmented into sophorolipids and rhamnolipids.

Lipopeptides are produced by *Bacillus* species. As compared to glycolipids, lipopeptides lower the interfacial and surface tension efficiently. They are cyclic peptides acylated with a fatty acid. This type's functionality depends on the type of amino acid in the peptide ring, structure, and chain length of the fatty acid component.



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Economic impact: The agro based renewable raw material sourced biosurfactant can benefit the country by reducing the dependency on petrochemicals based raw materials for synthesis of surfactants. Also, from the perspective of investment in R & D at such initial stage could lead creation of strong IPR, reducing the dependency as well as the cost associated with adopting of foreign technology, justifying the cost of the project.

Strategies to reduce production cost is to use economic carbon sources such as byproducts, wastes and renewable substrates. These include glycerol, poly glycerol, hydrocarbons, fatty acids and vegetable oils. The variety of renewable resources that can be used as carbon and nitrogen sources for fermentation with reduced substrate costs. Downstream processing in many biotechnological processes can contribute up to 50–80% of the total production cost depending on the difficulty of product recovery, which is based on the ionic charge, water solubility and location of the product (intracellular, extracellular or bounded to cell membrane). Biosurfactants are recovered from fermentation broth, a complex mixture containing residual substrates, salts, amino acids, proteins and other metabolic products, downstream purification is difficult especially for low titers. Despite such complexities, it is still possible to purify with relatively high purity using various proposed strategies such as foam fractionation. Alkyl chain length of fatty acid varies from C10-C18, making a lot of homologues of biosurfactants. This, therefore provides a extensive range of prospects for specific application

National Status Review

With the aim of carbon neutrality by 2070, India accelerated efforts towards the renewable energy and Sustainable solutions. As per the **The India BioEconomy Report 2021** brought out by the Biotechnology Industry Research Assistance



Council (BIRAC), the country's BioEconomy size has grown by more than 12.3 % in 2020 to reach \$ 70.2 billion. The BioEconomy in 2019 was \$ 62.5 billion. The scope of biotechnology and governments emphasis on bioeconomy justifies the need of Biobased technology development and their applications. Surfactants one of the emerging industry due to its versatile utility in various industries such as Personal Care, Home Care, Oil field Chemicals, Pharmaceuticals, Agriculture and other. Increasing concerns of petroleum-based products and customer awareness created huge scope for Biosurfactants. Global Biosurfactant market size was more USD 1.75 billion in 2020 and is estimated to grow at over 5.5% CAGR between 2021 and 2027. But this global surfactant market is led by western specially by European players. The domestic

focus on biosurfactant production is not much encouraging, despite the fact that Asia and Indian subcontinent are one of the growing markets. To cater the highly growing global and domestic demand there is good opportunity to Biosurfactant industry in India. Global market is driven by various biosurfactants which are based on sugar esters, sophorolipids and Rhamnolipids. But in India there were very few players who produces biosurfactants at large scale, especially in production of Rhamnolipids.

Global Biosurfactants Market size was over USD 1.75 billion in 2020 and is projected to raise at over 5.5% CAGR between 2021 and 2027 owing to rising consumer cognizance regarding the hazardous effects of man-made surfactants on environment and human well-being. In wide category of Biosurfactants, it is estimated that biosurfactant market based on sucrose esters, sophorolipids and Rhamnolipids will grow with CAGR of 5.5%, 7.5% and 9% respectively between 2021 and 2027. Biosurfactants can be extensively useful to many industrial fields such as petroleum, bioremediation, agriculture, cosmetics, food processing and pharmaceuticals because of their proven surface properties and biological activities. The largest producers are located in Asia-Pacific region and China was the largest consumer of bio-surfactants. The worldwide marketplace is moderately consolidated in nature with only few major players controlling the market. Some of the major corporations are Evonik Industries AG, Jeneil Jeneil, GlycoSurf, LLC, AGAE Technologies, LLC and Biotensidon GmbH among others.



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TECHNICAL ARTICLE

Cosmetic Preservative Blend- KOPTBC

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Kumar Organic Products Research Centre Pvt. Ltd., Bengaluru.
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Cosmetic Preservative Blends are the mixtures or blends of more than one preservative compound in order to inhibit the growth of microorganism on cosmetic products. Presence of water and nutrients in Cosmetic products can easily support the proliferation of microorganisms. Apart from this reason, the microorganism is also the cause of change in viscosity and colour in cosmetic products.

Therefore, the requirement to check and control microbial activity plays a vital role which results in increasing the shelf lives as well as the quality of the products.

Besides having anti-microbial properties, cosmetic preservative blends are also used in product formulation as multifunctional ingredients such as antioxidant, emollient, humectant, moisturizers, fragrance, viscosity regulator etc. Cosmetic preservative blends have a wide variety of

application in personal care industries.

Cosmetic preservative blends not only prevent cosmetic products from microbial growth by increasing its shelf life but also provides ease in the formulation of the products which results in great demand from cosmetic industries. Cosmetic preservative blends also offer broad spectrum with a significantly lower level of its use in final products which result in seeking its attention by various personal care industries.



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- o Beauty Soaps
- o Body Lotions
- o Creams
- o Hair Oil
- o Shampoos
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Perfume Concentrates

- o Body Oils
- o Colognes
- o Deodorants
- o EDT Sprays

Home Care

- o Floor Cleaners
- o Laundry Detergents
- o Laundry Soap
- o Liquid Soaps



Incense Sticks

- o Designer
- o Floral
- o Fruity
- o Herbal
- o Spicy
- o Woody



The term “preservatives” refers to the functional name for a wide variety of compounds that help slow or prevent bacterial growth in a wide range of products, including foods, medicines, and personal care products. These compounds can be natural or synthetic. Preservatives play important roles in many products people use every day – for example, by helping prevent the growth of harmful microorganisms and protect products from spoilage or contamination.

Preservatives in Cosmetics and Personal Care Products

Preservatives in cosmetics and personal care products help prevent contamination and the growth of harmful bacteria in products ranging from sunscreens, lotions and shampoos to cleansers, toothpaste and makeup.

Antimicrobial preservatives in cosmetics and personal care products help prevent the growth of molds, yeasts and bacteria, guarding against contamination that can cause irritation or infections. Antioxidant preservatives also can help keep personal care products from spoiling by suppressing reactions that can occur when certain ingredients in a cosmetic or personal care product combine with oxygen in the presence of light, heat and some metals.

Improperly preserved personal care products can cause skin irritation, infections, blindness, and even serious illness or death. In 2006, five intensive-care patients at a hospital in Barcelona, Spain, contracted life-threatening infections with the bacterium *Burkholderia cepacia*. Their illnesses were ultimately traced to a moisturizing body milk used in the patients’ care. Researchers detected the bacterium in unopened bottles of the body milk.

Preservatives help maintain product integrity by killing microorganisms. Most preservatives are active against a single type of microbe. For example, parabens

are most effective at killing fungi (yeasts and molds), whereas formaldehyde donors (discussed below) target bacteria. “No single preservative is equally effective against all types of microorganisms,” says Philip Geis, principal consultant at Geis Microbiological Services in Gainesville, Florida, USA. “As a result, a mixture of preservatives is often used by formulators to ensure that a broad spectrum of antimicrobial activity exists.”

Cosmetic formulators gauge the efficacy of preservatives with a preservative effectiveness test (PET). They inoculate a product with a mixture of bacteria, yeast, and mold, then measure the levels of the microbes over time, typically 28 days. If the number of microorganisms in the product does not fall to acceptable levels, the product fails the PET and should not go to market.

Global Preservative Blends Market was valued US\$ 167.9 Mn. in 2019 and is estimated to grow at CAGR of 5.6 %, to reach US\$ 260.9 Mn. during the forecast period from 2020 to 2027.

Now a days, many manufacturers of Preservatives are offering Preservative blends having synergistic effect making the blend effective against broad spectrum. Many a times, the blend also other multifunctional activities. Example of few such blends are as follows.

Kumar Organic Products has now launched a preservative blend KOPTBC,

Which has broad spectrum activity as it has been proven to be effective against Gram +ve, Gram –ve, yeast & mould.

It is a blend of Triethyl Citrate, Caprylyl Glycol, & Benzoic Acid. The blend is Clear liquid having mild characteristic odour. It can be added at any point during the manufacturing process. It is both hot and cold processable and Low impact on emulsion stability. For incorporation into aqueous based systems, solubilizers may

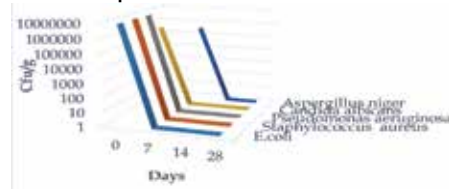


be added. It is an economic alternative to standard preservatives system. It can be used between 1.0 – 1.5% in the product. It is effective in pH range of 4.0-8.0

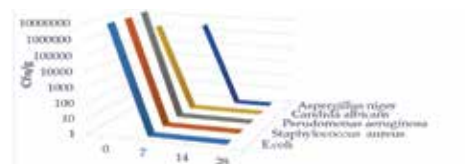
Following are the result of Preservative Efficacy Tests.

PRESERVATIVE EFFICACY STUDY AS PER ISO 11930

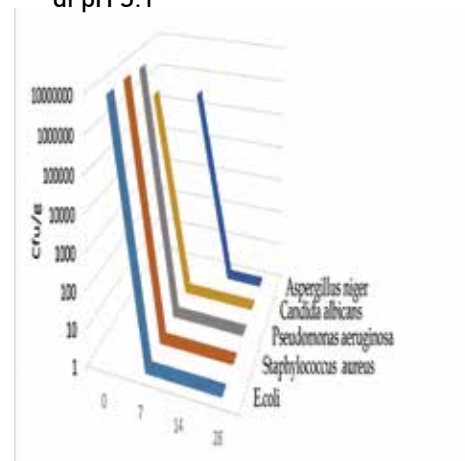
Moisturising Cream with KOPTBC 1% at 5.5pH



Wet wipes (Aqueous based) with KOPTBC 1% at pH 5.5



Hair Conditioner with KOPTBC 1.2% at pH 5.1



KOPTBC is perfectly suitable for emulsion, aqueous product & colour cosmetics. It is ideal for wet wipes. In fact it is suitable for all Rinse off & leave on products of skin care, hair care & colour cosmetics.

Preservative Blends are now in demand as these are having broad spectrum activity due to synergistic effect and it also has other multifunctional effect.

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TREND ARTICLE

Beauty Trends for 2023: Hybrid Cosmetics and Vegan Collagen

Hybrid Cosmetics are among the latest trends in the industry. Topping this list of cosmetic trends for 2023, **Hybrid Cosmetics** and **Vegan Collagen** are a testament to the ever innovative and evolving cosmetic market. Luckily, these concepts are synergistic and Hybrid Cosmetics may contain Vegan Collagen.

So, what are **Hybrid Cosmetics**? This new-wave in cosmetics offers multiple solutions in one product, it's a multi-tasker for skin. Often, they're advertised as quick and pocket friendly, perfect for city-dwellers on the go.

These products are bundled with various active ingredients, textures, efficacies and post-application benefits. For example, **Hybrid Cosmetics** may be a serum, something that gives instant hydration, and simultaneously provides SPF or bluelight protection. Some products will include novel textures like mousse, but it's the post-application benefits that truly make a product hybrid.



Vegan Collagen

This innovation in cosmetics is made from plants instead of animals and offers promising applications in hybrid cosmetics. Typically, Collagen is a protein that's synthesized in the body, this protein makes skin more elastic. But now, even Collagen has gone vegan - vegetable-based collagen mimics the amino-acid composition of animal collagen.

Most fascinatingly, Collagen can now be made by using genetically modified yeast and bacteria sources. Binding together the protein fibers produced by corn, soy, and wheat produces a naturally derived vegetable collagen with anti-aging power that supports the youthful elasticity and suppleness of skin. Just like bovine-derived Collagen, plant and yeast derived Collagen moisturizes and provides skin density enhancing efficacy.

We set out to research the topic and were pleasantly surprised to see that several international brands offer Vegan Collagen in their products, e.g. r.e.m. beauty, COLOURPOP and essence cosmetics.

This trend is gaining popularity and in the following months we will have a pleasant surprise by the many new **Hybrid** products that



containing **Vegan Collagen** that will be seen on the shelves. Among these you can expect lip stick, lip oil, lip gloss, primer, skin tint, face oil and face serum with plant-based Collagen.

What has caused the popularity of this trend? The Consumer demand for eco-friendly, sustainable, vegan products!

Contact for more details
Email: reach@maximasolutions.co.in
Phone: +91 77188 56156

Marigold in Cosmetics

-Vinay Kumar Singh.

Head-Formulation

Kumar Organic Products Research Centre Pvt. Ltd., Bengaluru

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You must have seen brightly orange-coloured marigolds in flower or vegetable gardens many times before, but did you know that certain species of marigold flowers actually have many impressive health & Cosmetics benefits as well?

Marigold, genus of about 50 species of annual herbs of the aster family (Asteraceae),

native to southwestern North America, tropical America, and South America. Marigold flowers are found almost everywhere in the world. These flowers grow easily, blossom reliably, and have fewer insect and disease problems.

The plant is popular as a house and garden ornamental throughout most temperate countries. Flowers are used as a source of yellow fabric dye known as 'egandai' or

'gendia'. In Mexico, Central America, India and Nepal, the flowers are often used in ceremonies and religious rituals for decoration and for making garlands. In Mexico and Central America, the flowers are used to decorate the altars in the celebration of All Saints Day. In Nepal and India, flowers are often sold in local markets and used as an offering to the Gods.

Marigolds are used in garlands and decoration



Marigolds of the *Calendula* genus are utilized for their many anti-inflammatory, antispasmodic and antifungal compounds. In fact, according to a report published in *Pharmacognosy Review*, more than 200 different commercial and medical formulations now contain concentrated calendula marigold extract.

Benefits and uses for *Calendula officinalis* marigolds include treating conditions, such as rashes, allergies, eczema and dermatitis; pain, swelling and redness caused from muscle cramps, muscular injuries or sprains; eye inflammation and itchiness caused by conjunctivitis; and fungal infections, including athlete's foot, candida, ear infections and ringworm.

Botanical research shows that calendula marigolds contain many active constituents, including various antioxidants and volatile oils. These are responsible for the flowers' bright colour and strong smell; attract useful insects and at the same time ability to repel certain fungi, pests and insects; and also its capability of improving blood flow and controlling inflammation infections and ringworm.

Some of the active ingredients found in marigolds (*calendula*) that give it these capabilities include:



- Plant sterols known as calendulin
- Calendic acid
- Polysaccharides
- Linoleic acid
- Carotenoids
- Flavonoids
- Triterpenes saponins, such as triterpenoid
- Tocopherols
- Oleanolic acid glycosides

Use of Marigold

The marigold is probably one of the best known medicinal herbs. Today, the plant is mainly used in the treatment of wounds and various joint



complaints. But the marigold is not only useful for external ailments, but also for many internal ones.

The healing abilities of the plant have been known for a long time. While in the herbal books of the late Middle Ages and early modern times, the marigold was used as a sweat-inducing plant and for the relief of eye and tooth discomfort. Powdered marigold flowers were recommended for toothache. Marigolds inlaid in alcohol, on the other hand, have been used to treat reddened eyes.

The marigold is usually used today in the form of ointments, wraps, teas, butter, compresses and homeopathic remedies. Marigold ointment is used primarily for the treatment of wounds of all kinds as well as joint injuries, abscesses, bruises and ulcers

Marigold extracts as well as hydrolates of the plant are today predominantly used in cosmetic products such as e.g. face lotion. The main application area here is the prevention of dry and stressed skin.

Marigold is one such flower that works just wonders on your skin and hair. It is used in different areas like cosmetic preparation, medicines as well as it is most widely used as ornamentals.



for weddings, festivals, and religious events.

One of the most common ornamentals is the Aztec, or Mexican, marigold (*Tagetes erecta*).

The common name in English, marigold, is derived from Mary's gold.

It usually bloom during the warmer months of the year (from about May through October in the Northern Hemisphere).

Another popular ornamental is the French marigold, which is usually listed as a variety of *T. erecta*.

T. minuta (khakibush or huacatay), originally from South America, has been used as a source of essential oil for the perfume and industry known as tagette or "marigold oil", and as a flavourant in the food and tobacco industries. Research also showed that essential oils extracted from Marigold are an effective insecticide against bed bugs.

The florets of *Tagetes erecta* are rich in the orange-yellow carotenoid lutein and are used as a food colour (INS number E161b) in the European Union for foods such as pasta, vegetable oil, margarine, mayonnaise, salad dressing, baked goods, confectionery, dairy products, ice cream, yogurt, citrus juice and mustard. In the United States, however, the powders and extracts are only approved as colorants in poultry feed.

A particular species of marigold flower, *Calendula officinalis* (commonly just called calendula or "pot marigold"), is used to make healing herbal ointments, teas, tinctures and topical treatments that have been in existence for almost 1,000 years. Many households have marigold products as a typical home remedy in stock.

TECHNICAL ARTICLE

Common Problems with Sulfate-Free Surfactants and How to Fix Those

Mr. Gautam Budhiraja, Managing
Director, N V Organics

Mrs. Kalyani Tiwari
Senior Manager - Technical, N V Organics
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coametic business

For over a decade, sulfate-free self-cleaning products have dominated the market and with good reason. Consumers are much more tuned into what companies are putting in the products that they buy, and sulfates are widely known to be extremely destructive to the environment through deforestation, as well as getting washed down the drain and entering the local ecosystem where it can cause havoc. Additionally, sulfates

can have a massive impact on personal health and can cause irritation to consumers' eyes, skin, hair, and even lungs after long-term exposure. This means that consumer preference was driven hard in the direction of sulfate-free products.

As a result, many companies started investing in sulfate-free surfactants to create their shampoos and other products. Unfortunately, using these

materials can come with a wide range of other issues which have made it extremely difficult for developers to create that perfect product that helps them dominate the market. However, there are certain tactics and steps you can take to improve the quality of your products and ensure your customers will love them without having to add any sulfates whatsoever.

Here are just some of the ways we can help



you create the self-cleaning product you've been dreaming of today.

Better Viscosity

One of the main features that consumers love to see in their shampoo is a good viscosity. In fact, many people determine the quality of a product based on its viscosity. However, creating a viscous shampoo or gel can often seem impossible without adding sulfates. Our ingredients will be able to aid in the thickening process and, thus, help you to create that ideal look and feel that standard shampoos.

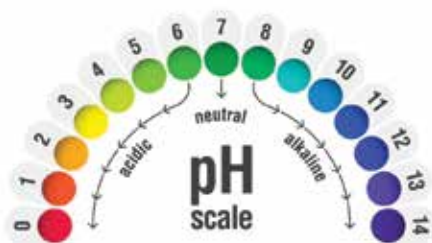
Easy Rinse Off

Another challenge that many developers face when trying to create stunning sulfate-free products is the difficulty in washing it off. Many of the ingredients that were initially used to create these shampoos and cleansers ended up being nearly impossible for consumers to remove in the shower or bath, leaving them feeling unclean and greasy all day long.

However, our world-class ingredients have been put together with this difficulty in mind and we have created many mild rinse-off formulations that will leave your customers feeling squeaky clean in no time.

Perfect pH

Maintaining a proper pH balance is incredibly important to the overall health of a person's skin and hair. However, a large number of ingredients that have been used to create sulfate-free products can have an adverse impact on this balance which can result in serious irritations. No consumer is going to rely on products that impact their health and comfort in this way. Luckily, our products will ensure that



your consumers will be able to maintain the ideal pH levels.

PEG Free Ingredients

There is no doubt that consumers are very aware of ingredients used in the products they use, and as a result, now searching for PEG free cleansers. PEGs are synthetic chemical compounds that can be found in a wide range of makeup, cleaners, and personal care products. However, many studies show that these



chemicals can, in fact, have extensive drawbacks including harm to the nervous system, human development, and can even cause cancer. As a result, most consumers prefer purchasing products devoid of these substances.

All of our ingredients are completely PEG free and safe to use.

Beautiful Foam

Another clear sign of a high-quality product from the consumers' viewpoint is how well it foams. Customers love to see a long-lasting and dense foam that covers their entire body and ensures that they're washing off all the dirt and grime. Unfortunately, many sulfate-free surfactants are poor foaming agents.

However, our ingredients were developed keeping this characteristic in mind.

Low Cost

Another serious issue many companies face while developing a great sulfate-free product is cost. Sulfate-free cleansers can be extremely expensive to make, especially when compared with what would be spent using earlier ingredients. The high cost of making Sulfate-free surfactants has led to many companies making sacrifices in other areas to make ends meet. However, we pride ourselves on being able to keep our prices low, allowing for optimum costing for our clients.

Creating the perfect product that consumers both love and trust can be what a company needs to make its mark in the self-cleaner market. However, living up to consumer expectations in terms of the ingredients you use while also being able to make ends meet can seem nearly impossible most of the time. By finding a world-class provider who can help provide you with the best ingredients without overcharging you to the extreme can make a world of difference in this regard. We have worked hard to make sure our ingredients help our clients create the perfect products without having to cut back in other areas. To have a look at all the exceptional products we have to offer in Sulfate free category contact us today.

BRAND UPDATES



Gattefossé's new Inspirational Collection invites you to celebrate life

Gattefossé, the manufacturer of natural cosmetic ingredients sets the tone for 2023 with a new INSPIRATION collection called Daring on the Daily. This is a joyful invitation that shakes up conventions to celebrate life as a manifesto and assert one's uniqueness.

Seven new formulas developed by Gattefossé's application lab break the norms and explore new territories. Surprising and delightful, the Collection invites everyone to have fun, be bold, and be whimsical.

Organized around three key trends – 'I.D. Manifesto', 'Playground' and 'Experience the Unexpected' – each of which aim to celebrate a new expression of beauty, encouraging disruptive and playful cosmetics.

1. **I.D. Manifesto** - Don't try to hide imperfections let them be a pathway to individuality. A desire for self-acceptance and self-expression.
 2. **Playground** - encourages a more playful cosmetic application with new formulas.
 3. **Experience the unexpected** - It's time to discover new territories! Between the real and imaginary, appearances can be misleading...
- Inspired by the trends, three exciting new formulas showcased are:
- **Primer-to-Powder** - a makeup base with a creamy texture transforming into a powdery touch with a silky after-feel
 - **Glittering Gummies** - a highlighter with a gummy-like texture in a travel-friendly format depositing shimmery pearls
 - **Alien Slime** - an optical illusion cream-gel that may surprise with its stringy, slime-like texture but captivates with its comfortable and non-sticky after-feel – perfect for a soothing massage

The entire collection is detailed on the dedicated page created by Gattefossé: Daring on the Daily
For more information visit www.gattefosse.com

Recode your glam game with Recode Studios

We are team Recode - A group of seasoned cosmetic experts passionate and committed to drive excellence in the beauty and personal care industry. We have been instrumental in combining quality with creativity in each product we offer.



As our experience in handling the designs, production and business management of cosmetic products across the globe runs into a decade now, we see ourselves as the energy leaders spearheading the need for bringing premier quality products to you.

Our association with the leading manufacturers from across the globe, majorly Germany and Taiwan, boosts our confidence further to promise a product quality which is beyond excellence.

Recode aims to become the nation's one of the largest platforms selling multiple beauty and lifestyle brands and hence becoming a one stop portal for all type beauty and personal care products a customer can look for.

We offer a well curated comprehensive selection of makeup, skincare, hair care, bath and body, grooming appliances, personal care, health and wellness categories from the most trusted brands.

Maxima Solutions: Beautifying with Alchemy

Alchemy is the seemingly magical process of transformation, the transformation of the aha experience and the elements of nature into beautifying serums, creams, shimmers, and emulsions. At Maxima Solutions, we are alchemy!



Our alchemists are ever ready to fire up a crucible, our scientists can whip-up private label and contract manufactured formulas that are divine – for the avant-garde, bespoke concoctions are our forte. Inspired by a higher calling? Our alchemists can create vegan*, halal* and gender-neutral beautifying and cleansing products. Our 2 labs tirelessly innovate and iterate upon the standards.

Our alchemist philosophy facilitates the novice, the maverick, the mogul, and everything in between. And with over 35 years in the field, we have become the benchmark of alchemy.



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N V ORGANICS

High Performance Cosmetic Ingredients

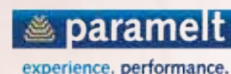
Natural | Safe | Organic



everCARE+



Givaudan



GALACTIC



ZSCHIMMER & SCHWARZ

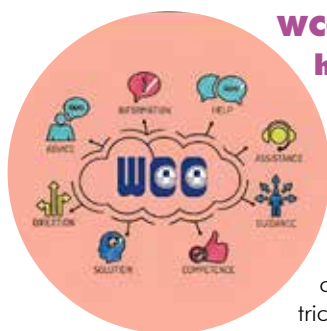
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WCC formulations for skin, hair and color cosmetics

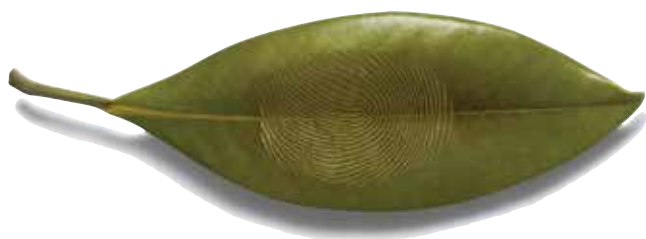
We, at Western Commercial Corporation, represent the world's renowned Japanese makers of speciality ingredients used in the personal care industry. Our ingredients go into skin care, hair care, color cosmetics, cosmeceuticals, trichology, baby care & oral care.

The products we offer are mild & harmless so as to make sure that there are no adverse effects on mankind. Our portfolio includes a wide variety of products such as mild surfactants, humectants, hydrolysed & derivatized proteins, emollient ester oils, liquid & powder sensorials, emulsifiers, rice-derived actives, rheology modifiers, solubilizers, dispersing agents, patented basic & advanced grades of Vitamin C, UV filters, natural/fermented extracts & many more. The cosmetic & personal care industry is directly related to fashion & trends. Innovation & concept creation is always an ongoing process for us.

Trends from the global markets & suitable solutions for local markets are areas of our work on an ongoing basis that can be useful in your current as well as upcoming projects and can be shared with you upon request. Our formulation team provides formulation & troubleshooting support for a wide range of formulations covering skin/hair/color cosmetics. For more information Connect with us to know more about what we can do for you.

For more information Email: technical@westerncommercial.in
sales@westerncommercial.in

Sourcing naturals at the origin of the creative process



Our great wealth in traditional raw materials or materials obtained using State-Of-The-Art technology gives perfumer's free rein to express their creativity. These specialists assimilate and easily anticipate the cultural, technical, and artistic characteristics specific to the diverse perfumery markets worldwide.

Robertet's creative department surveys and analyses the consumer lifestyle, Olfactory trends and mentality of each market that allows Perfumers to practice their art in constant response received from the evaluation, marketing, and sales department. This on-going process has helped Robertet to establish a fragrance library of more than 2000 fragrances.

Our unique expertise and unmatched experience enables us to deliver new ideas and innovative concepts to renowned brands that help become household names across the world.

For more information Email: contact.india@robertet.com

Dermasist enhances industry-leading formulations

Dermasist Innovation Lab is a state-of-the-art Personal Care Application Laboratory that creates and enhances industry-leading formulations across all domains of skincare, haircare, oral care, bath & body, color cosmetics, and personal hygiene.

It operates as a customer experience innovation hub and independent application laboratory.

As a team of dedicated professionals, we assist our clients at every stage, from ideation and innovation to problem-solving, regulatory compliance, and help with manufacturing. Whether you are a multinational company or a start-up, our robust R & D team can help you create a brand that matches your target audience and make your vision a reality, no matter the scope of your brand.

Our expertise in technical formulations continues to work closely with customers on new applications & solutions development and takes pride in providing excellent customer experience by demonstrating the performance of various products in their formulations by adding values. We believe that with a dedicated personal care application lab, we can work even more closely with our customers to develop formulations that keep them ahead of the curve, as well as explore new ways of capturing the Cosmetics, Beauty & Personal Care market. Not only are we adept at creating primal matter but are also handy to help manufacturers in using the same to formulate diverse products.

For more information about our lab, you may write to info@dermasistlab.com



VIRIDIS: one stop solution for personal care offerings

The India home & personal care segment is estimated to be growing in double digit growth rates. This can be attributed to the growth in disposable incomes, an evolving younger & more discerning population who is on the look out for innovative & quality personal care products.



Viridis Personal Care Pvt. Ltd., a subsidiary of the Viridis group (www.viridisbiopharma.com) is a one stop solution provider for personal care offerings. Our range includes Active Ingredients, Surfactants, Preservatives, Rheology Modifiers and others. Our product mix includes technologies taking care of current needs as well as future innovations. These also includes solutions which are natural, organic and ecocert as well. We have tie ups with reputed manufacturers across the globe & in India with an endeavor to bring in differentiated-innovative solutions offerings for the India & South asia markets. Furthermore we have application lab, analytical, and finished product manufacturing capabilities where in we could work with our customer on a concept to commercialization model.

For more information Email: info@viridispc.com

KINGVISH

(Since 2008)



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Argan Oil
Asiatica Centella Oil
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Carrot Oil
Evening Primrose Oil
Fenugreek Oil
Grape Seed Oil
Henna Oil
Hibiscus Oil
Liquorice Oil
Neem Oil
Onion Oil
Orange Peel Oil
Pumpkin Seed Oil
Rose Hip Oil
Safflower Oil
Sweet Almond Oil
Turmeric Oil
Thuja Oil
Walnut Oil
Witch Hazel Oil
Wheat Germ Oil
and many more...

EXTRACTS (For Cosmetics & Pharma)

Aloe Vera Extract
Amla Extract
Apple Extract
Ashwagandha Extract
Arnica Extract
Avocado Extract
Basil Extract
Brahmi Extract
Bhringraj Extract
Birch Extract
Blackberry Extract
Cabbage Extract
Calendula Extract
Heena Extract
Hibiscus Extract
Honey Extract
Hops Extract
Jatamansi Extract
Kiwi Extract
Kwao Krua Extract
Lemon Fruit Extract
Lemon Peel Extract
Liquorice Extract
Lotus Extract
Manjistha Extract
Methi Extract
Meswak Extract
Mint Extract
Neem Extract

Carrot Extract
Capsicum Extract
Cinnamon Extract
Cucumber Extract
Chamomile Extract
Cherry Extract
Clove Extract
Echinacea Extract
Eucalyptus Extract
Fennel Extract
Garlic Extract
Ginger Extract
Ginseng Extract
Ginkgo biloba Extract
Grape Fruit Extract
Grapes Extract
Grapes Seed Extract
Green Tea Extract
Orange Fruit Extract
Orange Peel Extract
Papaya Extract
Peach Extract
Pineapple Extract
Pomegranate Extract
Rosemary Extract
Shikakai Extract
Spinach Extract
Strawberry Extract
Sun Flower Extract
Turmeric Extract
Watermelon Extract
Wheat Protein Extract
and many more...

Butters

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Kokum Butter
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etc etc...

Manufacturers of

Plant Extracts

Plant Oils

Plant Butters

KINGVISH PVT. LTD.

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A Fascination With Perfumery



Sachee Fragrances crafts the finest fragrances

A home-grown business fueled by pure passion for the art of perfume making, Sachee Fragrances is committed to delivering world-class sophistication to our global brand partners through our compositions. Perfecting the process of crafting fragrances and flavours with finesse through inspiration, ideation to the final stage of unveiling made-to-order compositions.

Driving Excellence in Clinical Research through Advanced Methodologies

Clinical research today has gone beyond the mere need of meeting regulatory requirements. This is more so with consumer products, OTC and nutraceuticals where companies are looking for product attributes and benefits which every consumer can relate to. Very few organizations have built such expertise to provide end-to-end solution in the areas of skin, hair, body care, household, nutricosmetics/dietary supplements and OTC products.

C.L.A.I.M.S Private Limited is one such CRO who provides the above services to its clients across pharmaceuticals and FMCG sector. C.L.A.I.M.S carries out product claim substantiation in the above areas.

CLAIMS started its operations in 2008. Since the founder, Mr. Mohile, had spent 20 years in pharmaceutical and FMCG organizations, he could clearly visualize the need gap which was existent. "We at C.L.A.I.M.S see ourselves as value adding partner and not just as CRO", mentions Mohile, Founder & MD of CLAIMS.

The company offers comprehensive services to Pharma, FMCG and Food industry for safety, efficacy and sensory evaluation of Cosmeceuticals (hair/ Skin/ body care), Dermaceuticals, Topical Drug Formulations as well Nutraceuticals. So also, for 'Home Care' range of products for the FMCG segment.

C.L.A.I.M.S has a strong technical team having diverse experience in clinical research, product formulation, consumer in-sighting and sensory evaluation. It also has state-of-the-art non-invasive instruments to generate quantitative and objective clinical data. The company is known for its ethical practices, something which is of paramount importance for trust and brand building.

C.L.A.I.M.S was recently named among Top 10 Clinical Research Organizations in Asia for 2022 by Asia Business Outlook. For more information visit www.claimsclinical.com

Natural Safe and Organic in demand

If you produce cosmetics, personal care products, or topical pharmaceuticals, you already know that 'Natural, Safe, and Organic' is the demand of the present times. Because it is Good for Nature, Good for your customer, and Good for your brand. Demand for natural, safe, and organic products continues to grow. Creating a new or transitioning to safe, natural, or organic product lines isn't always easy unless you have a partner with the ingredients, knowledge, and experience to accelerate your product development journey - from formulation to certification to launch.

At N V Organics, we offer a unique triple service that helps you create natural, safe, and organic products while keeping costs and development cycles at a minimum. First, when developing new products, take advantage of N V Organics' extensive and established portfolio of natural ingredients. Save time and money by relying on top-quality existing formulations already proven to be safe and effective.

If you are transitioning from conventional to natural and organic formulations, we can assist you with complimentary technical and formulation services to

replace ingredients with a minimum of delay and difficulty. And when it comes time to certify your products, N V Organics is ready to assist with that as well. With our years of experience, we understand the requirements demanded by leading regulatory bodies around the world. Let us advise you and leverage our network of contacts and experts.

Ingredients, formulation services, regulatory expertise, N V Organics provides everything you need.



Gravity Chemicals and Specialities deliver precise solutions

Founded in 2012, Gravity Chemicals and Specialities began providing industrial chemicals and has since established itself as a reliable and dominant supplier of Home and Personal Care Ingredients, Speciality Chemicals & Coating Solutions. We partner with companies from across the world to forge and maintain meaningful relationships that inspire us to deliver the finest quality products available. We are the most chosen supplier and product development partner for the many leading FMCG manufacturers and preferred channel partner for the global leading speciality chemical manufacturers.

We are experienced Chemical suppliers in India with a passion for exceeding expectations when it comes to delivering high quality products and service. Cost-effective processes allow us to maintain long term, mutually beneficial and meaningful partnerships with our clients.

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Uses -
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Skin radiance and
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BENEFITS

The elevated levels of antioxidants in Kopcarotol protect the skin and hair from 'free radicals from pollution and sun exposure'.

The prebiotics and postbiotics from fermentation help to maintain healthy skin microbiome.

The richness of vitamins imparts radiance and glow and rejuvenates the skin

APPLICATIONS

Shampoos, conditioners, creams & lotions, serums, hair & scalp treatments, bubble baths, packs & masks, face & body cleansers, body sprays, color cosmetics, skin treatments & shaving products.

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Gangwal Chemicals Pvt. Ltd.

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Over the decades, Robertet has acquired:

- Sustainable sourcing of natural ingredients from around the world.
- An expertise in natural products and their technical process of production.
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“Seed to Scent” is a development concept that establishes full traceability from the source of the ingredients to the final creation. Robertet group fully integrates all stages “from Seed to Scent” creation i.e. Harvest, Extract, Analyze and Compose.

Our main activities include sourcing and transformation of plant ingredients into volatile and non-volatile natural extracts. Using a very integrated approach to sourcing, Robertet has developed a real expertise in natural products, making the Group today’s undisputable specialist in natural aromatic raw materials.



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