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VOL. XXIII NO. 1 JANUARY - MARCH 2022



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VOL. XXIII NO. 1, January - March 2022

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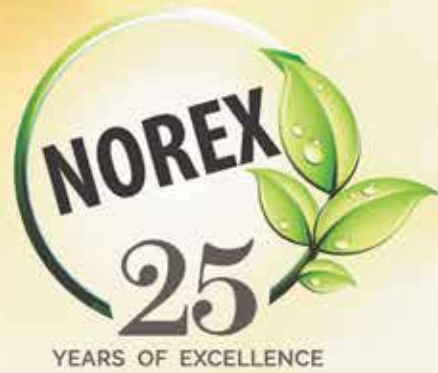
As many of you may be aware, I am deeply involved with a Yoga and Meditation practice called Heartfulness. The Global Teacher of Heartfulness Shri Kamlesh D. Patel, affectionately called Daaji, has written a beautiful book called Designing Destiny. It is not my intention to use this space to promote a book, or even a practice, but to share with you some of the learnings in the book that have deeply impressed and influenced me.

As life limps back to normal and we (hopefully) leave the worst of the pandemic behind us, the scars that it has left behind will not be forgotten in a hurry. While we cannot change the past, as Daaji explains in the book, when we learn to accept and love, every aspect of our life begins to thrive. When we believe we design our destiny, we set a direction for our goals. Let us not forget that the first principle of destiny is that we can only change it in the present. The future is determined by the present, how we live NOW. The yielding heart attracts grace, happiness, cheerfulness and joy, which in turn builds relationships. So let us use our experiences, whether good or bad, as learnings for wisdom is to utilise all our faculties at their best. And for this we must listen to the heart carefully and follow it faithfully. Let it be our inner guide. Evolution of the mind is about cultivating a balanced state and moving from thinking to feeling.

I sincerely hope and pray that we shall all emerge from the pandemic stronger, better and wiser, as individuals, as a society and as a nation. May this human perfection be our destiny and may we all work towards it. Wishing everyone all the very best.

With fragrant wishes,

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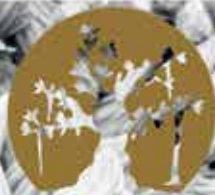
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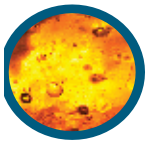
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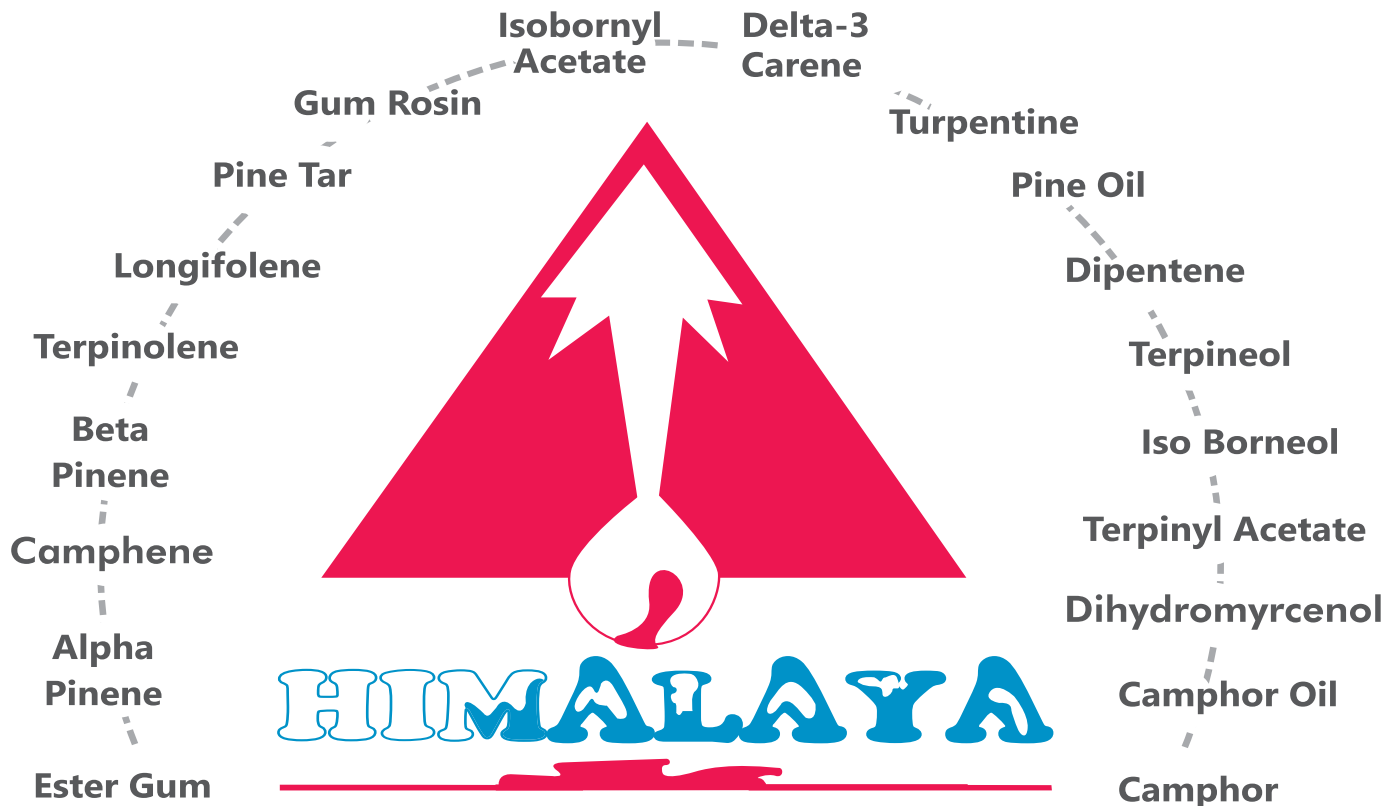
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72nd AGM of FAFAI

The 72nd Annual General Meeting of Fragrances and Flavours Association of India was held on Saturday, the 29th January, 2022 through online platform.

President Mr. Rishabh C. Kothari opened the meeting and welcomed all the members to the 72nd Annual General Meeting of the Association. He thanked Past President Mr. Hasmukh Patel and senior members of the Industry Mr. Ramesh Vaze, Mr. Shailendra Kumar Jain, Mr. Sant Kumar Sangneria and Mr. Satish Gandhi for their graceful presence at the AGM

In his remarks the President mentioned that "Given the current situation, which is not suitable for large gatherings, there was no option but to host this meeting online, but it is also a good opportunity for everyone to get together, interact and discuss matters of important to the industry" He appraised everyone about the setting up of the R&D and Testing Facility being set up at FAFAI Juinagar premises where FAFAI members all over India can avail this facility at nominal charges. FAFAI will be buying equipment such as GCMS, Analytical Digital Polarimeter, Refractometer, Density meter and other necessary equipment required for the laboratory. He also thanked our Treasurer Shri Hitesh Mehta for his untiring efforts in setting up the facility.

In this context FAFAI has received an offer of unconditional technical and administrative support from the Kelkar Group of companies in setting up as well as running the facility the President thanked Mr. Ramesh and Mr. Kedar Vaze for their generosity.

The report of the Managing Committee, the Audited Accounts for the year 2020-21 and budget for the year 2021-22 were adopted during the AGM.

At the end of the proceedings the senior members present wished FAFAI a great future and also appreciated the efforts taken by this Managing

Committee in spite of the many challenges.

The meeting concluded with a vote of thanks proposed by the Hon. Secretary Mr. Shyam Prabhu.

FAFAI Virtual Bazar 2022

After the success of the 1st Edition of the Virtual Bazaar in 2021, FAFAI organized the 2nd Edition of the Virtual Bazaar on 2nd April 2022 with a view to provide a platform for the exchange of information and highlighting of new or old products, technologies, initiatives or even ideas to all our members.

The one-day event saw active participation from F & F Companies in India and Overseas.

FAFAI President Mr Rishabh C. Kothari while inaugurating the FAFAI Virtual Bazar 2022 spoke about the importance of such virtual events and gatherings, especially when in-person activities and events had come to a standstill due to the pandemic globally. He expressed his satisfaction at the extremely large number of registrations for the event and thanked all the delegates, the participating companies, the sponsors, supporting organizations and media partners for their interest and support for this initiative. He particularly appreciated the efforts of Mr. Krish Hirani, the convenor of the event, for all his efforts in organizing the event and asked him to take the proceedings forward.

Mr. Krish Hirani welcomed the participants and attendees and briefed the members about the event. The FAFAI Virtual Bazar 2022 was attended by over 900 delegates from all over India as well as overseas.

The following companies very generously sponsored the FAFAI Virtual Bazar 2022 and made the event possible.

1. Associate Allied Chemicals India Ltd.
2. BMV Fragrances Pvt. Ltd.
3. Jayshree Aromatics Pvt. Ltd.

4. Karnataka Aromas
5. Mane Kancor Ingredients Pvt. Ltd
6. Norex Flavours Private Limited
7. Ultra International Ltd.



The following companies participated as 'Exhibitors' at the FAFAI Virtual Bazar 2022 and showcased their products/offerings to the audience.



1. Aarav Fragrances & Flavors P. Ltd
2. Givaudan India P. Ltd.
3. Dip Software Solutions P. Ltd.
4. Fine Fragrances P. Ltd.
5. Mamta Polycoats
6. Firmenich Aromatics Production (India) P. Ltd.
7. Biolandes SAS
8. Soofi Traders
9. Synarome Fragrance Ingredients and Specialities
10. Vimal LifeSciences P. Ltd
11. Lanxess India P Limited

Each participating Company were allotted an exclusive slot of 25 minutes for their Company / Product presentation.

The event was supported by the following organizations

1. All India Agarbatti Manufacturers Association
2. Gujarat Agarbatti Manufacturers and Dealers Association

FAFAI is also grateful to its Media Partner for the event Perfumers and Flavorist and Incense Media and for their support and publicity given to the event.



The overwhelming response received for the event from all sections was extremely encouraging and inspires the Managing Committee to host many other such virtual initiatives.

Congratulations

We are happy to inform everyone that FAFAI President Mr. Rishabh C. Kothari has been elected President of the prestigious 120 year old Business Chamber MCCI.



The MCCI started its function in the name of 'Vaishya Mitra Sabha', which was renamed as the 'Merchants' Committee' in 1904 and membership was opened to all. It plunged itself into the Swadeshi Movement

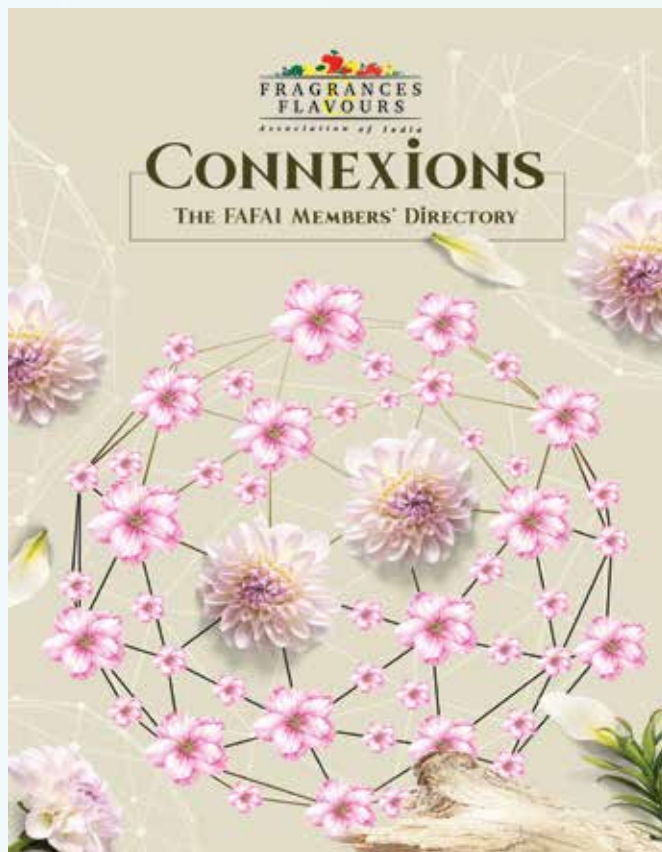
launched by Mahatma Gandhi in 1921. In 1952, the name was changed into 'Merchants' Chamber of Commerce', which was ultimately changed to "Merchants' Chamber of Commerce & Industry" in 2016, to re-affirm and reflect its focus on trade, commerce & industry. The Chamber today is steadily making its presence felt across the country and abroad, through well-thought out, meaningful initiatives aimed at taking Indian Industry to a higher growth trajectory.

On his election Mr. Rishabh C. Kothari said that "MCCI, which completes 120 years this year, serves as a unique catalyst in supporting the business community in Eastern India in both identify opportunities as well as meet challenges. It is to this end that the Chamber provides opportunities for growth and development of our members through 4E's ~ Explore, Educate, Empower and Enable which naturally leads to the 5th E ~ Excellence in all spheres.

We wish Mr. Rishabh C. Kothari all the very best in all his endeavours.

The FAFAI Members' Directory 2022

The 10th Edition of Members' Directory 2022 is published and circulated to all our members. The



earlier Directory was printed in 2014 and since then there have been many changes including the entry of new Members. Few copies of Directory is available for sale @Rs. 1000/- inclusive of courier charges.

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Mane Kancor Noves to ensure sustainable sourcing of Mint

Aimed at promoting sustainable sourcing of mint, Kochi-headquartered Mane Kancor Ingredients, part of the French fragrances & flavours major, Mane Group has tied up with more than 7,000 mint farmers.

The company has taken the initiative to encourage sustainable supply chains for mint, a key ingredient in the flavour and fragrance industry, considering the ever increasing demand for high quality mint based products. The pioneering 'Mint Sustainable Programme' addresses the Sustainable Development Goals (SDGs) right from nursery to distillation.

"We introduced a technology called Early Mint Technology (EMT) with the help and guidance of scientists from the Central Institute of Medicinal and Aromatic Plants (CIMAP). The stolon's are planted in the nursery much before the usual main land sowing periods and allowed to grow into plantlets, which are then transplanted into the main fields on either side of a ridge, unlike the traditional system," said Mr. Geemon Korah, CEO, Director, Mane Kancor Ingredients.



Increasing yields

He stated that it all started when the company realised the continuous increase in cost of inputs led to an increase in the cost of production of mentha oil, while synthetic variants were 25 to 30% cheaper. "Farmers were shifting away from mint cultivation. A change was gathering momentum due to high cost of cultivation, reduced productivity, climate change and market fluctuations." He remarked.

According to research done by experts from Mane Kancor, EMT helped farmers increase yield by 20%, reduce their cost of cultivation by 20% and the irrigation requirement by 25%. It also prevents any crop loss due to flooding in the field as plants are grown on ridges.

"We are now closely working with CIMAP to provide the latest high yielding and climate resistant planting material. It is claimed to increase the yield by 20%. Currently, it is in the pilot phase and full pledged commercial production is expected to start from the new season," explained Mr. Korah.

Mane Kancor agronomists have not only trained the farmers on sustainable agricultural practices, but also prepared them for certification by a third party auditor. It will provide them access to better markets and, in turn, better prices. Currently more than 7000 farmers are certified under FSA by Mane Kancor.

All the sustainable small farmers' fields, numbering close to 7000 are geo-tagged and geo-mapped making use of remote sensing and satellite imagery services to ensure traceability of the raw materials produced through sustainable farming practices. The company also provides direct market linkage to sustainable mint farmers by way of minimum support price fixed at the beginning of each season.

- Hpicindia, January 2022

Spices Board launches online platform for exports



Union Minister of State for Commerce and Industry Som Prakash Launched the country's first virtual platform for spice exports Spice Xchange India at a hybrid event held in Kochi recently.

"Spices have contributed greatly to India's export basket despite the COVID-19 pandemic and the country now enjoys a dominant share in the global spice market by exporting 225 different spices and spice products to more than 180 countries," Mr. Som Prakash said. Export development and promotion, value addition, and quality improvement continued to be thrust areas for the government, he added. Launched by the Spices Board, spiceexchangeindia.com is a 3D virtual platform aimed at connecting India's spice exporters with buyers from around the world. The portal uses artificial intelligence-based technology to connect spice buyers with exporters in India. The buyers and sellers can access the database to find the potential customers. The portal works as an extended office enabling the subscribers to conduct virtual meetings.

'Forced by pandemic'

Dr. Sathiyam, Secretary of the Spices Board, said the pandemic had forced the board to conceptualize and create the portal, which would be relevant even after the pandemic period as it is easily connected exporters and importers. Mr. Diwakar Nath Misra, Joint Secretary, Ministry of Commerce and Industry, said the initiative would boost spice export from India.

The Hindu, January 21, 2022

Firmenich buys Blackstone's 10% stake in SH Kelkar.

Swiss fragrance and flavours firm, Firmenich has acquired private equity (PE) major Blackstone's 10% stake in S.H. Kelkar, the Mumbai based fragrance Company. The stake was sold at Rs. 173 per share for the total consideration of Rs. 242 crore.

Blackstone had invested about Rs. 200 crore in S.H. Kelkar in 2012 and 2013 for a 33% stake. Post the entry of Blackstone, significant investments were made, not only to strengthen processes and IT frameworks, but also to pursue inorganic growth with six strategic acquisitions. The PE firm took S.H. Kelkar public in 2015, in what was Blackstone's first IPO in India. It pared its holdings in 2016-2017. The latest share sale marks Blackstone's complete exit from the company. The PE Firm has made nearly five times returns on its investments.



S.H. Kelkar is one of India's largest fragrance and flavours manufacturers. It caters to domestic and global clients through operations across India, Europe, Indonesia and China.

"Blackstone had right to sell the stake to a strategic buyer. We were aware that Blackstone was looking at an exit". S.H. Kelkar's CEO Director, Mr. Kedar Vaze was quoted as saying in news reports.

Commenting on the exit, Mr. Amit Dalmis, Operating Partner, Blackstone India said, "S.H. Kelkar has been a phenomenon investment for Blackstone and was our first IPO in India. We found a great partner in Kedar Vaze and are proud of the remarkable transformation the business has achieved during our investment period. Based on the success of this investment, we developed high conviction in the B2B2C (business to business to consumer) space and have since committed over \$2-bn in this space in Asia including our investments in EPL and Piramal Glass".

Hpic India November, 2021

Kannauj-developed perfume launched in New York

A signature 'Made in India' perfume inspired by Indian spices and traditional scents, developed in the

country's perfume capital of Kannauj was launched on Friday 14 in New York, in first of its kind effort to bring India's traditional fragrance industry to the global stage.



Zighrana, an Indian essence and wellness products company hailing from Kannauj, in collaboration with Michelin-star chef Vikas Khanna has ventured into the global fragrance industry with the launch of its flagship perfume "Vikas Khanna by Zighrana".

Zigharana owner and entrepreneur Ms. Swapnil Pathak Sharma said the signature perfume highlights the unique amalgamation of "vocal for local" and global excellence. The new perfume is a "unique blend of sices like cloves, cardamom, nutmug, sandalwood, jasmine and rose, which have come to define the unique smells of India for more than a millennium."

"This is perhaps the first time that we have a perfume 'Made in India' and a perfume from Kannauj, being launched in New York. It is even more special because the launch is taking place in the 75th year of India's independence and the launch event is part of the 'Azadi Ka Amrit Mahotsav' that are celebrating," Consul General of India in New York, Mr. Randir Jaiswal, said at the launch event.

Zighana's parent company has a family history of creating fragrances since 1911. Ms. Sharma is the fourth generation entrepreneurs and aims to take her family's traditional business of Indian essence and wellness products to the global stage through Zighrana and its products.

"The Indian Fragrance Industry is one of the largest in terms of production and consumption, but its share in the global fragrance industry remains humble at about \$500-mn. This must change," she said.

Ms. Sharma said collaborating with Mr. Khanna gave origin to the idea of developing a perfume based on Indian culinary. She informed that she modified the production processes in India and under the guidance of her father "developed a unique fragrance inspired by Indian spices, scents and perfumes".

Hpicindia, February 2022

Dabur becomes first 'plastic waste neutral' FMCG company in India

Dabur India, India's largest Ayurveda Company, said it has become a complete plastic waste neutral firm in the country after collecting, processing and recycling around 27,000 tonnes of post-consumer plastic waste during FY21-22.

"It is a matter of great pride for the entire Dabur family, who have worked towards not just collecting plastic waste from our cities, towns and villages but also preventing the waste from reaching our landfills and oceans. This includes all types of plastic waste, from PET and HDPE bottles, PP caps and labels to multi-layered plastics and beverage cartons," Dabur India Ltd. Executive Director Operations, Mr. Shahrukh A. Khan said.



Dabur had set the target of collecting, processing and recycling over 22,000 tonnes of post consumer plastic waste and has surpassed it three months ahead of schedule. "We work with government registered recycling partners across the country and

have taken progressive actions to reduce plastic waste in cities, towns, villages, while also raising awareness about plastic waste management within the community. The collected plastic waste is being sent to different recyclers, waste to energy plants and cement kilns," Mr. Khan said.

Dabur's plastic waste management initiative was rolled out in 2017-18 as part of Plastic Waste Management (PWM) Rule and as has far collected over 54,000 tonnes of plastic waste (recyclable and non recyclable) direct from the end-users with the help of local rag pickers in around 150 cities across India. Dabur has also put in place a robust audit mechanism to ensure complete transparency and compliance to the state and central regulations and guidelines on plastic waste management.

-hpicindia, February 2022

Lotus Herbals acquires 25% stake in Conscious Chemist

Premium beauty care products maker Lotus Herbals has acquired a 25% stake in direct to consumer (D2C) skin-care brand, Conscious Chemist, which makes functional new age skincare products, free from toxins, fragrances and chemicals,

"Our strategic investment in this emerging brand takes forward our presence in the green beauty category, and is part of our overall M&A strategy," said Lotus Herbals Joint Managing Director, Mr. Nitin Passi. He said the company's first acquisition in the pure play D2C space, would help it scale up presence in the sector and cater to specialised consumer needs.



A report by a Avendus Capital said India's D2C segment would be a \$100-bn market by 2025, up from a negligible amount about two years ago. The Sector has been seeing heightened investor activity in the past two years across categories such as personal care, packaged foods and wearables.

This is Lotus Herbals' third acquisition amid the pandemic. The first was a 100% acquisition of luxury Ayurveda brand SoulTree in September 2020, followed by 32% stake buy in dermaceutical company Fix Derma last October.

- Hpicindia, February, 2022

Now connect with FSSAI through mobile app for license & Regn.

Country's food authority, FSSAI has launched a smart phone mobile application for the purpose of granting licenses or registration to food business. The mobile app would be a one place solution for food business having all the relevant information from procedures related to compliance with the FSS regulations, to laboratories and others.



The mobile application was named "Food Safety Connect", and FSSAI stated that it will help in connecting the authority with consumers and Food Business Operators (FBOs) and will facilitate food

business to apply for FSSAI registration through a faster and convenient mode. FSSAI in a statement said, SAI's Food Connect Mobile App, it will be easier for food businesses, particularly petty hawkers, vendors and start-ups to file an application for FSSAI registration by simply using their smart phones".

The statement added, "This newly launched mobile application will also provide information regarding eligibility criteria; FAQs on the procedures related to Licensing and Registration; Regulations and other compliances for the food businesses. FBOs can also access resource material pertaining to a list of notified laboratories for food testing, inspection checklists, product standards, list of Food Safety Mitras, training through FoSTaC, guidance documents etc".

Food and Beverage News, November 1-15, 2021

Indian incense sticks market set for strong growth: Report

A report on the Indian incense sticks market, which includes agarbatti and dhoop, estimates the market to grow at CAGR of over 10% during the period from 2021 - 2026.



Incense sticks are biotic materials that release aromatic smoke when burnt. These are manufactured from bamboo sticks, charcoal dust, water and adhesives.

According to a new report by IMARC Group, the market is primarily driven by the growing use of incense based products to perform various religious activities. It is noted the several initiatives undertaken by key manufacturers in introducing new fragrances such as lemongrass, cinnamon, strawberry, coffee, chocolate, green tea and jasmine. The firms are

also developing low- cost and low- smoke product variants, which are gaining popularity. "Furthermore, the unique fragrances and superior quality offered by incense stick makers are helping the industry carve a niche for itself in the world market, thereby increasing export activities from India," the report stated.

Hpicindia, November, 2021

Demand for hygiene products fall as Covid cases dip

The Covid-19 pandemic does not seem to have brought about long term behaviour changes across the population as several companies are either exiting some immunity enhancing, health and hygiene product segments, or scaling down production as their sales have slumped.

Firms such as Dabur, Emami and Parle products have already exited the hand sanitizer segment, and Emami is now withdrawing from the home hygiene segment with products such as disinfectant floor cleaner, surface sanitizer and dish wash gel after their sales dropped significantly in the quarter ended September amid lower Covid-19 infections and increased vaccination.

"Consumers are getting back to pre-Covid lifestyle, proving false all predictions made during Covid that these products will continue to do well even when the pandemic moderates," said Mr. Mohan Goenka, Director of Emami.



While sales of immunity products are getting back to pre-Covid levels, for sanitizers, the business is almost zero even from high growth channels like e-commerce, he added.

Hindustan Uniliver Ltd. (HUL), the country's top fast moving consumer goods (FMCG) maker, confirmed a decline in sales of hand sanitizers and hand wash in the last quarter, but is confident people will stick to habits that will help check spread of viruses even after the pandemic.

"The heightened awareness of hygiene will not border on obsessiveness like it did last year, but it will certainly become a very important behaviour point going forward," HUL's Chairman, Mr. Sanjiv Mehta told investors during the recent earnings call. "Hand wash and sanitizers were going through like a bullet train. Now what we are seeing is hand sanitizers and even liquid hand wash are moderating," he said.

Falling out of favour

As per data from Bizom, a sales automation firm that transacts with 7.5 million retail stores, secondary sales or orders by retail stores from distributors for home care hygiene segments including toilet cleaners, dish wash and fabric care fell 8% year-on-year during the quarter ended September. The decline was significantly higher in the personal hygiene space, with hand wash witnessing a 37% fall and sanitizers shrinking 43%.

"In home care hygiene products, where brand loyalty is not very strong, there has been an increase in consumption from store brands, especially in modern trade and online channels," said Mr. Akshay D'Souza, Chief of growth and insights at Mobisy Technologies that owns Bizom. "Also sanitizer production was in short supply during the first wave, which impacted distribution, but when operations got streamlined, companies have been struggling to move stocks as there were hundreds of brands, he revealed.

Another FMCG major, ITC Ltd., in its September quarter earnings release, said the Savlon range of health and hygiene products witnessed market demand volatility and moderated sequentially in line with reduction in Covid cases through it remained significantly above pre-pandemic levels.

India to Attract large Investments Due to COP26 Commitments

The commitments on emission control made by India at the recent Glasgow COP26 summit are expected to benefit the country in the long-term with new technologies in energy efficiency, carbon reduction and green fuels as per information from ICRA.



Being a developing country, which is at an inflection point in terms of its energy consumption, the nation's per capita energy consumption is expected to surge three to four times over the long term. India has also committed to reducing greenhouse gas (GHG) emissions by one billion MT by 2030. India has also committed to a net-zero carbon emission target by the year 2070.

In order to achieve the net-zero target by 2070, a focused roadmap would be required. It calls for timely interventions by the government and large investments in GHG emitting sectors like power, industry, and transport. These sectors together emit 90 percent of carbon dioxide as per 2019 data of the International Energy Agency.

Ambitious targets for COP26 open massive investment opportunities across segments stemming from 500 GW renewables by 2030, higher EV penetration (10 percent by 2025), 20 percent ethanol blending for petrol, improvement in energy efficiencies and improvement in carbon capture from enhancing green cover and use of advanced technologies. This would need massive policy interventions to ensure investments across sectors remain profitable enough to sustain well beyond 2030.

Chemical Industry Digest, January 6, 2022



**NATURAL INGREDIENTS
THAT INSPIRE
THE WORLD'S
LEADING FRAGRANCES**

Essential Oils

Black Pepper | Calamus | Cardamom | Celery Seed | Cinnamon Bark | Cinnamon Leaf | Clove Bud | Clove Leaf
Coriander Seed | Cumin Seed | Curry Leaf | Curcuma Aromatica | Davana | Dill weed | Dill Seed | Elemi | Fennel Seed
Galangal | Galbanum | Ginger | Java Galangal | Juniper Berry | Lemongrass | Mace | Myrrh | Nagarmotha | Nutmeg
Opoponax | Olibanum (Carteri) | Olibanum (Serrata) | Patchouli | Palmarosa | Perubalsam | Parsley Seed | Styrax | Turmeric
Vetiver

Extracts

Cardamom | Celery Seed | Clove Bud | Coriander Seed
Fennel Seed | Ginger | Guggul | Mace | Nutmeg
Rosemary | Vetiver

Resinoids

Benzoin | Elemi | Galbanum | Labdanum | Myrrh
Oakmoss | Olibanum | Opoponax | Perubalsam | Styrax

SCFE Oils

Black Pepper | Caraway | Cardamom | Cassia | Cinnamon | Clove | Coriander | Cumin | Fennel | Ginger | Mace
Nutmeg | Rosemary | Star Anise Seed | Turmeric | White Pepper

Absolutes

Benzoin | Beswax | Cardamom | Fenugreek
Jasmine Grandiflorum | Jasmine Sambac | Labdanum
Lavender | Mimosa | Myrrh | Oakmoss | Tuberose

SCFE Extracts

Black Pepper | Cardamom | Celery | Clove | Cumin
Fennel | Ginger | Mace | Nutmeg | Vanilla



MANISH MINERALS AND CHEMICALS

**Importers and Suppliers for Terpene and Perfumery Chemicals
and Raw Material for Soap & Phenyl Industry**

CLEANER RAW MATERIAL

PINE OIL 22% / 32% / 42% / 65%
DIPENTENE / COMMERCIAL GRADE
TURPENTINE OIL
CAMPBOR OIL
REFINED NAPHTHALENE POWDER / BALLS
CAMPBOR POWDER
GUM ROSIN
TURKEY RED OIL 50% / 70%
EMULSIFIER (9.5 / 4.5)
PHENYL EMULSIFIER
CUTTING OIL
ALPHOX 200 / 100
ACID THICKENER
PHENYL THICKENER
LABSA 90%
SLES / AOS

TOPS / RESIDUES

DHM TOPS / RESIDUE
ANTHAMBER TOPS / RESIDUE
METHYL PENTANONE RESIDUE
GERANIOL TOPS / RESIDUE
DEP SUBSTITUTE
FURNACE OIL AND LDO SUBSTITUTE
RESIDUES FOR DHOOP / AGARBATTI
CAMPBOR RESIDUE
MTOPS / PINE RESIDUE

RAW MATERIALS

GREEN PHENYL RAW MATERIALS
WHITE PHENYL RAW MATERIALS
GLASS CLEANER RAW MATERIALS
PAINT RAW MATERIALS
AIR FRESHNER RAW MATERIALS
PERFUMED FLOOR CLEANER RAW MATERIALS

SPECIALITY PRODUCTS

PRESERVATIVES FOR CLEANERS
LIQUID DETERGENT COLOUR PROTECT POLYMER
FABRIC CONDITIONER RAW MATERIAL
LIQUID DETERGENT BOOSTER POLYMER
LIQUID DETERGENT STAIN REMOVAL POLYMER
HAND DISHWASH LIQUID POLYMER
KITCHEN CLEANER SURFACTANT
GLASS CLEANER SURFACTANT
BATHROOM TILES CLEANER SURFACTANT
ISOBORONYL ACETATE (I.B.A)
ISOBORNEOL FLAKES
TERPINEOL
TERPINYL ACETATE

FRAGRANCES

LEMON GRASS / CITRONELLA
EUCALYPTUS / PALMAROSA
LAVENDER / PASSION FLOWERS
JASMINE / MOGRA / ROSE
LIME / ORANGE / LEMON / CITRUS
LAUNDRY FRAGRANCES
STRAWBERRY / GREEN APPLE / MANGO
MUSK / AQUA / PATCHOULI

SPECIALITY PERFUMES

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Givaudan to acquire US-based fragrance house, Custom Essence

Givaudan, the Swiss maker of flavours, fragrances and active cosmetic ingredients, has agreed to acquire Custom Essence, a US based fragrance creation house.



Founded in 1981, Custom Essence is a family-owned business specialising in the formulation of natural fragrances. The company employs 70 people globally. Custom Essence's unique knowhow in natural fragrance creation has largely contributed to their success in the USA and in particular in natural products for the personal care category.

Mr. Maurizio Volpi, President of Givaudan Fragrance and Beauty said, "We have excited to announce the acquisition of Custom Essence as it fits perfectly with our 2025 strategy to expand our presence with local and regional customers and grow our capabilities in natural perfumes. Custom Essence will bring true expertise in managing a fast growing customer segment, as well as valuable know-how in formulating natural fragrances."

Mr. Prashun Patel, Chief Operating Officer at Custom Essence said, "We are proud to join Givaudan and to bring in our knowledge in natural fragrance creation as well as our reach to local and regional customers."

Givaudan's technology, regulatory, supply chain, and international manufacturing support will enable us to scale quickly to provide even better value to our customers".

Givaudan said Custom Essence's business would have represented approximately \$40 mn of international sales to its results in 2020 on a proforma basis.

Chemical weekly, Nov. 30,2021

IFF invests \$87-mn in expanding Indonesian Flavours facility

American Fragrances and Flavours firm, IFF, has invested \$87-mn in their newly extended flavours manufacturing facility in Karawang, Indonesia. The facility located in Karawang International Industrial City, first started operations in 2015 to address the fast-growing demand for flavour technology in the region. Today, as IFF's largest manufacturing facility in Greater Asia, Karawang houses full manufacturing capabilities, from liquid compounds to powder, emulsions and spray dry technology, warehousing and quality control.



"This investment reflects our confidence and ambition in the region. For the past 10 years, IFF has made significant investments in Asia as we have expanded our footprint in china, Singapore, India and most recently Indonesia," said Mr. Andreas Fibig, Chairman and CEO of IFF. The newly extended 12,800-m² facility is equipped with modern infrastructure and

technology to ensure efficiency, safety, quality and traceability, the company said. This expansion and increased capacity will service customers in South East Asia and North Asia.

- Chemical weekly, November,30,2021

IFF to acquire Health Wright Products

US based fragrances and flavors major IFF, has agreed to acquire Health Wright Products, LLC (HWP), a company involved in formulation and capsule manufacturing for the dietary supplement industry.

Founded in 1995, HWP is located in Clackamas, Oregon, USA and is a privately-owned and long time business partner of IFF's Health and Biosciences Probiotics business. HWP manufactures custom formulations and delivers encapsulation and packaging to meet the industries' exacting requirements for probiotic products. With over 165,000 ft² manufacturing space, the company generated approximately \$100mn in annual revenue in 2021.



IFF said the acquisition will bring "formulation and finished format capabilities to its Health & Biosciences probiotics, natural extracts and botanicals businesses, allowing for innovation in custom formulation and combination products through joint capabilities.

-hpicindia, February 2022

Firmenich recognized for AI expertise

Firmenich, the swiss privately owned fragrance and taste company, has won the 'Digital Innovation of the Year' at the Digital Economy Award 2021 held in Switzerland. The recognition celebrates the Group's Artificial Intelligence (AI) capabilities and its new 'Formulae Generator', which augments creation for both fragrances and flavours.



'AI is a cornerstone of Firmenich's innovation that allow us to marry the most fundamental elements of our DNA: cutting-edge R & D with the unique expertise and creativity of our perfumers and flavourists' said Firmenich's CEO, Mr. Gilbert Ghostine.

Firmenich said its AI-augmented creation enables "uniquely tailored perfumery and taste solutions with unprecedented speed-to-market". In 2020 Firmenich launched the industry's first AI-augmented Laundry care fragrances and created the first ever flavour by AI.

Building on this know-how, the 'Formulae Generator' opens new possibilities and boosts perfumers' and flavourists' creativity by learning from the legacy of Firmenich formulas and ingredients. The system connects the initial composition with data such as specific applications and olfactive descriptors (scent & taste) helping creators understand which ingredients to use in products including shampoo, soap, body spray, beverages, dairy, meat analogues and more. This provides a base from which Firmenich creators can build bespoke creations for customers.

- Chemical Weekly, December,7, 2021

Firmenich's Turkish JV begins work on new perfumery production hub

Swiss fragrances and flavours firm, Firmenich, and its Turkish partner, MG International Fragrance Company, have broken ground on a new 'regional perfumery production hub' on the MG International campus near Istanbul, Turkey.

The 47 mn swiss franc (around \$52mn) investment in the new plant is aimed at providing 20,000 tpa of additional capacity to serve customers in Turkey, the Middle East and 'Stans' countries.

"This project is a milestone in the partnership Firmenich signed with MG International Fragrance Company in 2019, demonstrating our shared dedication to provide winning service to our customers and the strength of our commitment to this dynamic region," said Firmenich's CEO Mr. Gilbert Ghostine.



We are very proud that our legacy of 186 years of combined business experience in fragrances continues to successfully expand the alliance that we started only two years ago, said MG International Fragrance Company's CEO Mr. Aslan Gulcicek.

The new perfumery facility is expected to become operational before the end of 2023, joining Firmenich's global network of 46 perfumery, flavours and ingredients plants across the world. With approximately 15,000 square meters of floor space spread across four floors, the facility will house advanced digital production technology and quality assurance laboratories.

-Hpicindia, November, 2021

Firmenich increases capacity for renewable ingredients for perfumes at French site.

Firmenich the world's largest privately – owned fragrance and taste company, has commissioned a new multipurpose production unit for renewable ingredients at its facility in Castets, southwestern France. The new plant, which will be operational in January, will increase production capacity on the site by 50% to serve perfumery customers and address the fast growing demand for sustainable products.

The plant's multi- purpose design is expected to secure supply for a diversity of finished products as well as for a large range of intermediates.

"This additional plant at Castets strengthens our global leadership in renewable ingredients by placing Firmenich in a strategic position to offer extra capacity for perfumery, providing superior service close to our customers in Europe and capturing growth opportunities." Said Firmenich's CEO, Mr. Gilbert Ghostine." The state – of the art facility also makes a significant contribution to our Environment, Social and Governance (ESG) objective to ensure 70% of Firmenich ingredients are manufactured from renewable carbon sources by 2030."

Firmenich President of ingredients, Mr. Boet Brinkgreve pointed out that the new plant will help extend the company's unique industrial expertise in producing pine – based ingredients from up cycled material.



The expansion will position Firmenich as a recognized supplier of bio sourced and renewable ingredients, he added.

Chemical Weekly December 21, 2021.

Symrise sets up joint venture with France's Groupe Neroli

German fragrances and flavours firm, Symrise, has established a joint venture (JV) with French Fragrance House, Groupe Neroli, as part of its efforts to sustainably expand its capacity in naturals, increase production of backward integrated ingredients, and create new and greater capabilities in flowers Mediterranean materials.



Symrise, which will become the majority stakeholder in the JV, will bring its expertise in sustainable ingredients like Vanilla from Madagascar to the partnership. Groupe Neroli will add its over 35 years of experience and realise its plans to diversify its activities in the cultivation and exploitation of perfume plants.

Presence in the centre of perfumery

The JV is building a fully equipped factory in the renowned Grasse region complete with R & D and ingredient development laboratories with local partners. Symrise and Groupe Neroli want to create the most technologically advanced and sustainable factory in the region - a centre of expertise that will produce its "own natural ingredients in an environmentally friendly and socially conscious way."

The JV intends to establish long term partnerships with local farmers and promote the richness of most

emblematic flowers of the region – including rose, jasmine, orange blossom and mimosa. Alongside, the company will be working with proprietary materials grown in other parts of the world, including Madagascar, as well as outstanding ingredients sourced from specialist farmers and producers. With this initiative, Symrise also committing to bettering the social conditions of these expert cultivators, which will result in 49 new natural ingredients, reinforcing Symrise as a key player in natural perfume ingredients.

Mr. Ricardo Omori, Global SVP Fine Fragrances, Symrise said, "Symrise has been purchasing sustainable backward integrated natural new materials from Madagascar and beyond for many years. We are now able to expand our natural business considerably by working with Groupe Neroli. Going to Grasse, with its centuries of heritage and savoir-faire brings Symrise to the centre of perfumery.

-hpicindia, November, 2021

Symrise expands 1,2- alkanediols production with a new plant in Spain

German fragrances & flavours maker, Symrise, has made a targeted investment by acquiring a new manufacturing site in Granada, Spain. The company has now started to produce cosmetics products protection ingredients there. This increases the capacity to support global market growth especially on 1,2 – alkanediols.

Symrise has invested in upgrading its Granada site to meet the specific production requirements of its high-quality 1,2-alkanediols. The company said the first production trials have successfully met the standards of these Symrise products. With the recent start of the new production line, the plant now produces both cosmetic ingredients and abroad range of fragrances ingredients from renewable raw material.

Symrise's 1,2 – alkanediol products represent a range of multifunctional ingredients that are increasingly going into personal care products.

Symrise is already producing these ingredients at its manufacturing plants in Holzminden, Germany and

Monterrey, Mexico. The Granada production site will allow Symrise to keep up with its local and global customers' needs.



The Granada production plant became part of Symrise by acquisition in April 2021." The product portfolio of the site complements Symrise's existing portfolio. In addition, investments have started to set up new production lines for Symrise's hydro lite cosmetic Multifunctional ingredients," informed Dr Peter Esser, Vice President Global Chemical Production.

Mane expands fragrance division offices in Dubai

French Fragrance and Flavour firm, Mane has expanded the facilities of its business Bay fragrance creation and R & D centre in Dubai with an additional 300 square meters. The space has been increased to accommodate to the growing commercial and customer service teams. The development centre that houses state-of-the-art testing and development



facilities has also been expanded with additional space and more resources, the company informed.

"Our independence gives us the freedom to invest in our business and our people in the long term, which is the true essence of corporate social responsibility," said Mr. Jean M. Mane, CEO.

- Hpicindia, February 2022

Australian Green Ammonia Production a Step Closer

Incotec Pivot (IPL) and global green energy company, Fortescue Future Industries (FFI) have reached the first milestone in their quest to develop industrial scale green ammonia production at IPL's Gibson Island Facility in Brisbane, Australia. Based on preliminary studies conducted by each party, FFI have found the project is technically feasible and issued IPL with a notice to proceed to the next phase. This allows the parties to negotiate an agreement to process this project to a Front End Engineering Design (FEED) study, which will refine cost, schedule, permitting and commercial agreements and inform a potential Final Investment Decision.

The Gibson Island plant currently uses natural gas as a feedstock to produce ammonia. In October, IPL and FFI announced a partnership to investigate the feasibility of replacing gas with renewable hydrogen to produce industrial scale green ammonia. IPL Managing Director & CEO, M/s Jeanne Johns said the partnership was part of IPL's ambition to be Net Zero by 2050.

If the project proceeds, it is currently proposed that FFI would construct an onsite water electrolysis plant and develop and operate the hydrogen manufacturing facility, with IPL operating the ammonia manufacturing facility. The new water electrolysis facility would produce up to 50,000-tpa of renewable hydrogen and be a complete replacement of Gibson Island's current gas feedstock. This renewable hydrogen would then be converted into more than 300,000-tpa of green ammonia for Australian and export markets.

Ms. Jonhs said the project provided the potential to transition Gibson Island to a renewable future, following IPL's decision to cease manufacturing at the plant at the end of 2022. "Last month we announced an end to manufacturing at Gibson's Island in December 2022 after we were unable to secure an affordable long term gas supply. While it was a difficult and reluctant decision, our partnership with FFI provides the potential for a renewable life for the plant.



The partnership also aligns with the strategies of both the Queensland and federal government to develop a clean, innovative and competitive hydrogen industry delivering reliable domestic supply and new export opportunities. The FEED study is expected to be completed by the end of 2022.

Chemical weekly, Nov. 30, 2021

Australian firm launches global competition for perfumers to reimagine Indian sandalwood in a fragrance

Australian Sandalwood producer, Quintis, in partnership with the American Society of Perfumers has launched a global competition for perfumers of all experience levels to reimagine the ancient botanical of Indian Sandalwood (*Santalum album*) within a fragrance.

The competition, being held between October 28, 2021 and March 31, 2022 calls on master and junior perfumers to create an Eau de toilette with at least 1% Quintis sandalwood, with no price limit.

"With this competition, perfumers have the chance to be recognised as a world leader in fragrance

creation. We encourage entrants to have a spirit of curiosity, unbound by constraints to reimagine the future of this precious botanical. Each entry should be sustainable, visionary, and artfully crafted, just like Quintis' Indian Sandalwood," said Ms. Danae Christensen, Market Innovation Manager at Quintis Sandalwood.

The 'Sandalwood Reimagined' competition aims to elevate the role of the perfumer, celebrating the creative perfumery process. Participants will use Indian sandalwood oil, an endangered fragrance material in the wild that is now available through sustainable cultivation in Australia, which has helped to see the resurgence in perfume formulations in recent years.

"When creating this competition, we removed the normal parameters of a commercial fragrance brief, like consumer profile and budget, and instead are encouraging participants to use Indian sandalwood as their muse," added Ms. Danae.

Perfumers will need to create an Eau de toilette supplied as a base, featuring a minimum for 1% Quintis plantation grown Indian sandalwood oil. Along with the perfume creation, all entries need to be accompanied with a 'statement of Creative Intent, providing an outline of the nature and ingredients of the base formulated.

An independent panel of fragrance masters chosen by the American Society of Perfumers will decide the top 10 finalists by evaluating blind, judging creations on blotters and skin. The winners will be announced at the World Perfumery Congress in Miami in 2022.



Two prizes will be awarded – the 'Global Winner' will receive about \$7,000 and the 'Emerging Talent' award for a perfumery student or junior perfumer will receive about \$1500.

"Indian Sandalwood has played an important part in the history of perfume, serving as a signature note in some of the most iconic and desired fragrances over the past century. Quintis' initiatives to promote the availability of sandalwood in a sustainable way gives us peace of mind knowing this beloved ingredient is back and here to stay," said Ms. Shemi Sebastian, Vice President at American society of Perfumers.

Before the 1970s, Indian Sandalwood trees were being harvested in the south of India by the hundreds of thousands of annually unitl, in 1974, it was discovered there were only around 3,50,000 tress left. The loss of a reliable source of Indian sandalwood was flet in the fragrance industry because it is not only a premium scent ingredient, often used as base, but also chemically useful for long lasting perfumes.



ingredients plants across the world. With approximately 15,000 square meters of floor space spread across four floors, the facility will house advanced digital production technology and quality assurance laboratories.

Hpicindia, November, 2021

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α - Pinene Ex Eucalyptus	Ethyl 2 Methyl Butyrate	Linalool Ex Basil	p- Cymene
α - Pinene Synthetic (98%)	Fructose	Menthone (70:30)	p- Cresyl Acetate (99%)
α - Terpinene	Gama Decalactone	Menthone (98%)	p- Cresyl Methyl Ether
α - Thujene	Gamma Terpinene	Menthyl Acetate	Phenyl Ethyl Acetate
Anisic Aldehyde (99%)	Geraniol Synthetic (98%)	Methyl Anisate	Phenyl Ethyl Alcohol
Anisol	Geraniol Ex. Palmarosa	Methyl Benzoate (98%)	Phenyl Ethyl Benzoate
Anisyl Acetate	Geraniol For Soap	Methyl Chavicol (99%)	Phenyl Ethyl Butyrate
Anisyl Alcohol	Geraniol Natural	Methyl Eugenol	Phenyl Ethyl Caprylate
Allyl Caproate	Geranyl Acetate	Methyl Heptanone	Phenyl Ethyl Formate
β - Ionone	Geranyl Butyrate	Methyl Heptyl Carbonate	Phenyl Ethyl Methyl Ether
β - Pinene - Ex Mint	Geranyl Caprylate	Methyl Iso Eugenol	Phenyl Ethyl Phenyl Acetate (98%)
β - Pinene Synthetic (98%)	Geranyl Formate / Propionate	Methyl Phenyl Acetate	Phenyl Ethyl Propionate (99%)
Camphene	Greenal	Methyl Salicylate	Pommerol (P.E.I.A.E.) (99%)
Caryophyllene (98%)	Gurjan Balsam Light (α - Copaene)	Methyl Toluene	p-Tolualdehyde
Caryophyllene (80%)	Gurjan Balsam Light (Gurjunene)	Myrac Aldehyde	Rhodinol
Caryophyllene Oxide	Gurjan Balsam Dark	Myrcene	Rose Oxide
Citronellyl acetate / butyrate	Herbogreenal	Methyl hexyl ketone	Roseol
Citronellyl formate	Hydroxy Citronellal (Imp)	Nerol (90% +)	Sabinene
Citronellyl propionate	Hydroxy Citronellol	Nerol Super (70%)	Terpinolene
Caryophyllene Alcohol/Formate/Acetate	Iso Amyl Acetate (99%)	Nerolidol	Terpinen-4-ol
Citral	Iso Amyl Alcohol	Neryl Acetate / Formate	Terpineol
Citronellal	Iso Amyl Benzoate	3 - Octanol	Terpinyl Acetate
Citronellol (Natural)	Iso Amyl Butyrate	Octanyl Acetate	Tolyl Alcohol
Citronellol (96%)	Iso Amyl Phenyl Acetate (98%)	Ocimene	Trans Anethole (99%)
Cis - 3 - Hexanol	Iso Amyl Propionate	Olibanum Resinoid & Powder	Thymol
Cis - 3 - Hexenyl Acetate/ Butyrate	Iso Amyl Salicylate (99%)		
Cis - 3 - Hexenyl Benzoate	Iso Butenol Natural		
Cyclogalbanate	Iso Cyclo Citral		
D-Carvone	Iso Eugenol		
Delta - 3 - Carene	Isophytol		
Di Hydro Beta Ionone	Iso Menthone Dextro (90%)		
Di Hydro Eugenol	Isopulegol		
Di Hydro Terpineol	Javanol		
Di Hydro Terpinyl Acetate	L- Limonene		
Dimethyl Octanol Extra			
Dimethyl Octanyl Acetate/Formate			
D-Limonene			
Elemol			
Eucalyptol (99.5%)			
Eugenyl Acetate			
Eugenol			





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Citral Schiff's Base
Indolene
Tolualdehyde Schiff's Base

Absolutes

Jasmine Auriculatum
Jasmine Grandiflorum
Jasmine Sambac
Tuberose
Rosa Damascena
Rose Edward
White Ginger Lilly

Essential Oils

Amryis Oil	Jojoba Oil
Apricot kernel Oil	Lavender Oil
Ajowain Oil	Lemongrass Oil
Anethi Oil	Mentha Piperita Oil
Basil Oil	Nagarmotha Oil
Cade Oil Crude & Rectified	Neem Oil
Cardamom Oil Steam Distilled	Orange Oil
Cedarwood Oil	Palmrosa Oil
Citronella Oil Java	Patchouli Oil (Indian)
Cinnamon Oil	Patchouli Oil
Clove Oil Rectified 85%	Peppermint Oil
Eucalyptus Oil (60% & 80%)	Spearmint Oil
Frankincense	Tea Tree Oil
Galbanum Oil	Vetivert Oil
Geranium Oil	



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GREEN/GALBANUM

Beta Galbutenone (Beta Dynascone*)
Galbador CG (Cyclogalbanate*)
Orspirane (Spiroxide*)

MOSSY

Rionyl OA(Evernyl*)

OZONIC

Methoxy Melonal
Methylozone (Calone*)

SPICY

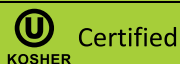
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PERFUMERY BASES - THE INDISPENSABLE PERFUMERY RAW MATERIAL

By Vishesh Vijayvergiya,
Perfumer & Scent Branding Consultant

What defines a Base, and what distinguishes it from a Fragrance? A base could be an original accord of non-original raw materials (Fantasy base) or an elaboration of a strong synthetic raw material (Paramantheme based on Nonadienal, Dorinia based on Beta Damascone), often releasing a captive (Ultrazur based on Azurone) and an economical reconstitution of an expensive natural product (Black Oudh Scobase), regulatory and compliances reasons (Grisambrol based on Ambrinol) or commercially non-existing natural ingredient (Muguet 16). Ideally, a base should have a well-defined character and mission statement. It should serve a purpose and fulfil a promise when incorporated in fragrance, whether it is a building block or a top-note modifier. As a matter of fact, many of the top Bases are simplistic accords - just two or three key components combined with several basic materials. For instance, the sparkling fruity top note of Thierry Mugler's Angel was imparted by Dewfruit Base, which is based on a captive named neocaspirene. Bases also help in imparting "complexity" to a fragrance, and, in turn, makes it somewhat more difficult to copy per analytical means, thereby ensuring greater control over one's formula. While there is no fixed guideline on the usage of number of bases in a compound, I personally feel that adding too many bases in a single formulation may not be advisable and may also not give

the desired result. This is consistent with what Theodore Levitt said, "Anything in excess is poison".

Bases are particularly indispensable in creating consistent and cost-effective substitutes of natural raw materials, where the quality variations and high costs limit their usage. Initially, simple accords were made as a substitute for these natural raw materials. For example, a blend of Benzyl Acetate, Amyl Cin. Ald. and Indole made a Jasmine Base; Terpeneol, Heliotropin and Cinnamic Alcohol formed a Lilac Base, while Vanillin and Labdanum formed an Amber Base. However, it should be noted that no matter how technically advanced these molecules and blends are, they cannot completely replace the natural product - the complexity and enchantment bestowed to a compound via natural ingredients is singular and unmatched.



Fig.: Bases may help in creation of cost-effective fragrances



Fig.: Old bottle of popular de laire base - mousse de saxe

At times, the purpose of a Base is not to hide a captive but to assist the perfumer in easily incorporating an overly powerful or difficult to dose chemical. These Bases are designed to help the creative perfumer in handling a tricky, high intensity raw material. A classic example is Isobutyl Quinoline, which with its extremely

powerful, leathery personality was beyond the understanding of most perfumers when it was initially launched. Perfumers did not know what to do with this powerful molecule, how to dose it and how to handle it! To the rescue of perfumers came Mousse De Saxe based on IBQ and paved way for the legendary perfumes like Chamade by Guerlain (1969), Nuit de Noel (1922), and many others. Another example would be Paramantheme based on Nonadienal - an exceptionally powerful material, which in isolation can be overpowering and difficult to dose correctly. Such potent ingredients are carefully and diligently worked upon by perfumers and AI (Artificial Intelligence) to create Bases thereby enabling easy incorporation in a formula - by novice and expert perfumers alike!

When you approach a perfumery house for the development of a fragrance for your new product launch, say a Soap or Incense Sticks, they have two possible approaches - either to start from scratch or work around a prefabricated block, a perfume Base - and modify it in accordance with the need and demand of the perfume brief, thereby expediting the development process. The former is gaining more momentum now due to obvious advantages - speed, convenience, and modularity!

In my personal experience, I have observed that there is a misconception pertaining to the usage of Bases! Some perfumers are reluctant in using them, thinking they simply are using someone else's creation! As a matter of fact, Edmond Roudnitska, one of the greatest perfumers of all times, widely used bases in his creations. So did master perfumer Jean-Claude Ellena, mentioning Cassis Base 345 as a part of his collection in the book, "Perfume - the Alchemy of Scent". Iconic perfumes like Chamade by Guerlain (1969), Chanel 19 (1971), and Angel by Thierry Mugler (1992)

would not have existed without these Bases. Amongst other popular bases are Lilas 7 (a renowned Lilac Base) and Dianthine (based on the scent of Carnation). Hence, perfumers must try to use a readily available Base wherever possible and avoid the temptation to work only with their creations - it saves time, and it gives the perfumer an opportunity to benefit from the experience of another expert. Even Isaac Newton thought it prudent to learn from the expertise of others when he said "If I have seen further than others, it is by standing upon the shoulders of giants" Bases provide the building blocks, the x-factor, the desired top note, that sought-after twist, and that much needed complexity to possibly defy GC-MS analysis!

Bases are not new entrants into the world of perfumery and are not necessarily complex concoctions. In fact, some of the extremely popular bases were simplistic blend of only a handful of ingredients. What sets them apart is their singular usage that overhauls the perfume in which they have been used. For example, the emblematic base Ambre 83 which defined the Amber accord, as we know today, has been used in the super successful Amber Sultan (Serge Lutens).

However, at other times, these bases can be exceptionally complex blends too, encompassing a lot of captive ingredients that have been invented by chemists and technicians working in R&D laboratories. These bases assist in 'covertly' releasing the captive and yet maintaining the exclusivity since perfume formulations may not be practically protected by patents. Moreover, with the help of assistance of GCMS, it is relatively easy to get the formula, which in turn can be used to produce imitations or 'inspirations'. However, a new molecule can be patented and protected from competitors. It makes commercial sense to release the captive in Base - because even

if the customer somehow gets to know the molecule, they cannot manufacture it since it is patented and hence, obliged to buy the Base from the company that invented that molecule. For example, Ultrazur is based on captive molecule Azurone, De Laire base "Poivre Pique DL" is possibly based on Belanis. Important examples of now released captives include Hedione in Eau Sauvage (C. Dior, 1966), Moxalone in CK Be (Calvin Klein, 1996), and Dynascone in Cool Water (Davidoff, 1988) (Yes, Hedione was once a captive!)



Fig: Bases provide building block of fragrance creation

In-house Bases can also be developed with the most common ingredients that form around 80% of a formula. For example, the Iso E Super-Galaxolide-Isoraldeine- Hedione accord also known as Grojsman accord, and the Lyral-Ionone-Galaxolide- Hedione accord that can form the base of countless creations – just add a bit of Melonal and it becomes a modern fruity fragrance or add a dash of Pharone and it becomes a contemporary green scent! Such bases also assist newcomers to perfumery! The perfumery base can be considered equivalent to Stock photography, Stock Template, or a prefabricated structure! Many such bases like Selvone and Althenol were created by Jean Carles, the famous Givaudan-Roure perfumer, for not only his in-house use but also for his

less-experienced clients. In a way, bases also ensure customer loyalty! Once a customer has used a perfumery base in a compound, he will continue to do so in all the future batches to ensure uniformity.

The chemist can break the formula derived from GCMS analysis into different groups - for example, Benzyl Acetate, Indole, Alpha Amyl Cin Ald in a Jasmine Micro-Base while PEA and Rose Crystals in a Rose Micro-Base. Later, these individual micro- bases can be assembled into a final modular formula. Bases can also help in maintaining the secrecy of a formula within an organization. Chief Perfumer from Location A will create an X-base with the most important molecules and leave the work of adding commodities at Location B to the junior perfumer.



Fig.: Bases may help in compliance by proving alternatives

There is another genre of the Perfume Base where the intent is to recreate a popular fine fragrance for a functional product, say Incense Sticks. Here, the bases act as a bridge between the "desired fragrance profile" and "cost-performance ratio expectation". As a matter of fact, in modern times, no high-class fragrance at the client specified budget is possible without the use of Bases. With the usage of Bases, we can create instantly recognizable scents such as the legendary "Chanel No.5" but without using any of the naturals used in the real version! This is justified by Robert R. Calkin and J. Stephan Jellinek when they mention, "The average consumer of today is frequently more concerned with performance,

in terms of strength and staying power, than with the beauty and subtlety of a perfume.” Perfumery bases also address the issues posed by various regulations that restrict or prohibit the use of certain ingredients by providing permissible alternatives.

Perfume Bases have also come to the rescue of Perfumers by providing them with “chemical bases” as a solution to combat the shortage and/or steep price rise in commodity as well as speciality chemicals. For example, “DHM-Base”, “Timberol- Base”, “Lyril-Base” and so on that flooded the Indian market in the recent past. Even large multinational companies were sharing “accords of chemicals” to replace chemicals in a formulation! Also, certain commercially successful ‘speciality chemicals’ are actually ‘specialty bases’ per se. For example, a refined quality of Iso E Super called Timbersilk, possibly contains 0.07% Amber Xtreme technically making it a “Base”.



Fig.: Super speciality bases may have an x-factor

there is yet another class of Bases that does not add to the olfactory profile but rather attempts to enhance odour perception, add depth and radiance, and may improve customer acceptance. Such Bases can be considered equivalent to MSG in food! Such olfactory marvels are mostly held captives by the large MNC for their internal use, and only a handful of companies offer such innovative creations. They add a layer of complexity, thereby making copying the fragrance through GCMS even more laborious (if not entirely impossible!).

In the recent times, Oudh-type fragrances have gained unprecedented popularity worldwide, going beyond the original hub - the Middle East and South-East Asia. It is noteworthy that Oudh is amongst the most difficult fragrances to formulate – not just in fine fragrances but also in functional fragrances. Oudh speciality Bases are being offered to the perfumers by leading companies, equipping them to formulate Oudh- based fragrances easily and confidently. For example, Black Agar Givco from Givaudan, Oudh Synth, Oudh Anokha from Firmenich, Oudh Essence from Scentography etc.



Fig.: Oudh bases are in trend in present times

Perfumery Bases are the very soul of countless classic perfumes. They continue to be widely used as they address mission-critical needs of a perfumery company. Knowledge about the available Bases and their apt application is an essential part of a perfumer’s training.

Happy Blending!

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Benzyl Alcohol FFC	Di ethanolamine 99%	White oil/ Wax Paraffin
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(ISO Butyl Acetate (Tert	Di ethyl Phthalate	Vanilline Ethyl
(N-Butyl Alcohol (Secondary	Di pentine	Emulsifier x-100/4.5/9.5 Moles
(Butylated Hydroxy Anisole (BHA	(.Dioctyl phthalate (D.O.P	Ethyl Acetate
(Butylated Hydroxy Toluene (BHT	EGMS NSE	Fructose
Camphor	Eucaltptus Oil	Glycerine Pure / IW
Camphor Oil	Ether Petroleum 40-60/60-80/80-100	Hexylene Glycol
(Carbitol (Ethyl	Sorbitol liquid	(Iso Propyl Alcohol / Either (IPE
(Carbolic Acid Crystal / liqld (Phenol	Tea Tree Oil	Iso Propyl Myristate
Menthol Bold	Terpienol EP	Jojaba Oil
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Methyl Salicylate	(Triethylene Glycol (TEG	(Liquid Paraffin light (Heavy
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P E G – 200/400/600/4000/6000		Propylene Glycol/Di Propylene Glycol

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Menthol, mint, mint tea - all common words used by billions of people throughout the world and seem to be part of everyday life. Beautiful crystals of snow-white powder with a cool refreshing odour, lovely flowering plants with fine odours and taste decorating gardens and terraces, adding flavour to green salads, or grilled meat, or an excellent drink when our stomach reminds us of its existence - all of these are there when they are needed. It would be good to know what percentage of those people have an idea of what they are dealing with and what they really use.

In the 9th century, Walafridus Strabus - abbot of Reichenau Abbey, the Benedictine monastery on an island in Lake Constance in Germany - wrote "*Whoever could enumerate fully all the properties and names of the mints might as well say how many fish swim in the Red Sea, how many sparks are ejected by Etna.*"¹

Let us start with a single product, a chemical - menthol. The main ingredient of many mint oils is itself a mixture of eight stereoisomers - one chemical, but in fact eight different chemical structures. Most popular in nature is (-)-menthol. It is also the most efficient as a bioactive component of many products and is valued by perfumers.

It is important to note that menthol, in all its forms, is the chemical synthesised either in nature by plants or artificially by humans. Biosynthesis of menthol in the secretory glands of peppermint plants is very well described² and starts with the conversion of geranyl diphosphate to limonene based on the catalytic reaction of basic structures in biochemistry - isoprenoid precursors (IPP). At the end of an eight-step reaction we have (-)-menthol.

Of course, as one of the numerous chemicals which are synthesised in similar reactions by the plant, it creates the well-known peppermint essential oil. From this, by different methods but usually by crystallisation, large ice-like crystals or white powder are formed. Almost the same process takes place in

all mint plants. There is no detailed literature on the chemical process of menthol synthesis in different kinds of mint, but what is very well known is that the composition of essential oils obtained from these oils is different in each case. Corn mint (*Mentha arvensis*) essential oil is the world's main source of natural menthol and its composition is completely different from peppermint essential oil. To conclude this paragraph, it is important to say that natural menthol is biosynthesised by plants.

Unfortunately, the world production of mint and essential oils which produce menthol is far too low to cover global demand (thousands of tons with up to US\$1.2 billion in 2030). Therefore, it is not surprising that chemists created a technical synthesis of menthol. There are two main industrial production methods for (-)-menthol. The first, a large-scale production method, was carried out by Takasago and is based on myrcene - a very popular ingredient and intermediate in synthesis in plants, constructed with the same IPP basic structures as many other terpenes³. In a six-step catalytic reaction, the product is completed. The second



method, and of similar importance in the market, is the Symrise process starting with m-cresol, a chemical isolated from coal tar, i.e., from synthesis in plants, which is then, by a relatively unknown process, converted into coal. This method results

in an enantiomeric mixture and the main point of the process is the separation of (–)-menthol. The racemic menthol can also be synthesised from many other terpenes, however, none of the methods have so far proven to be economic enough. A third process for the total synthesis of menthol has recently been scaled up to a much larger scale by BASF. It starts from isobutylene from petroleum origin, converted

to isoprenol and prenol by Prins reaction. Citral is obtained by dimerisation which is hydrogenated with chiral catalysts to citronellal which is then converted to isopulegol and hydrogenated to menthol.

As seen above, menthol used in food, fragrances and for all other purposes is mainly from synthetic origin. These processes are illustrated in Table 1.

TABLE 1. SYNTHESIS OF MENTHOL

MENTHOL 1	MENTHOL 2 TAKASAGO	MENTHOL 3 SYMRISE	MENTHOL 4 - BASF
SYNTHESIS BY PLANT			
From basic organic structures in a few steps of synthesis (with plant catalysts and intermediates e.g., limonene, pulegone, menthone) to give menthol as an ingredient of one of the essential oils including peppermint, corn mint and many others:	From basic organic structures in several steps common in essential oil plant synthesis myrcene (3), a well-known ingredient of numerous plant essential oils (e.g. wild thyme, cannabis, hops, lemongrass etc.), is obtained:	In unknown process, plants, probably pinaceae type, synthesises essential oils which together with all flora disappeared underground in some disaster in a past era and was converted in coal or petroleum or liquid form:	
MAN MADE PROCESSES			
Menthol is isolated from the oil by crystallisation or other methods, separated and purified to give:	Myrcene is isolated from the essential oil usually by fractionation. However, the majority of it is produced by pyrolysis of pinene. Then in five steps with catalysts and intermediates as citronellal, menthol is obtained, separated and purified to give:	These materials (coal, oil) offer raw materials, one of which is obtained from coal tar, m-cresol - starting material for four-step synthesis, with thymol as intermediate, to give a racemate of menthols. Main point of this process is the separation of racemic menthol esters by fractional crystallisation, then saponification and distillation or crystallisation.	It starts from isobutylene from petroleum origin, converted to isoprenol and prenol by Prins reaction. Citral is obtained by dimerisation which is hydrogenated with chiral catalysts to citronellal which is then converted to isopulegol and hydrogenated to menthol.
(-)-MENTHOL			

The main problem in all natural and artificial (-)-menthol preparation methods is regarding the purity of the final product. Considering the processes of synthesis, the number of raw materials, intermediates, catalysts, solvents etc., and knowing that practically no chemical process goes through to the very end using all of the raw materials, it is obvious that the final product will contain some traces of the chemicals engaged in the process. Of course there are sophisticated methods, chemicals and specific functions that are needed to produce a product which is almost 100% pure. The cost of such a procedure can be acceptable, either for

standards used in very special analytical methods or, in some cases, in medicine. It is important to note that all specifications of "pure" chemicals will give 95-98% purity. Of course there is no way, or any sense in asking for detailed composition of the remaining quantity as this can easily be in excess of one hundred chemicals. On the other hand, it should be noted that in the F&F industry, pure synthetics are not preferred by perfumers and flavourists, and it is common practice that such chemicals are "improved" by the addition of essential oils or natural products which contain "something" which ultimately creates the expected odour and flavour. Menthol is

an excellent example of this and is usually modified by the addition of a small amount of mint essential oil, or a small percentage of natural crystals. In addition to that, most of the customers are moving towards green chemistry. Green chemistry also called sustainable chemistry, focuses on the design of products and processes that minimize or eliminate the use and generation of hazardous substances.

Another product of the F&F industry is vanillin, with consumption and popularity similar to menthol. In this case however, we have a totally different situation concerning the source of the material. Numerous varieties of vanilla plants grown in many countries give beans which synthesise vanillin - an irreplaceable ingredient in the flavour and fragrance of all sweets and many other products⁴.

TABLE 2. SYNTHESIS OF VANILLIN

VANILLIN 1	VANILLIN 2	VANILLIN 3	ETHYLVANILLIN
SYNTHESIS BY PLANT			
From basic organic structures in several steps of synthesis, vanillin is created in vanilla beans.	From basic organic structures in several steps common in plant synthesis, ingredients like guaiacol, eugenol or lignin are obtained.		Ethylvanillin has not been identified in nature.
MAN MADE PROCESSES			
Vanillin is extracted from sun-dried beans by different solvents, used as an extract or after evaporation as a solid powder. Full or ground beans are also used as flavours.	According to the raw material used, in different chemical processes, crude vanillin is obtained, separated and purified to give:	Poly(ethylene terephthalate) in a relatively simple chemical process gives:	Phenol is converted to catechol which is ethylated to guaethol and hydroformylated to
VANILLIN			ETHYLVANILLIN

However, unlike most F&F ingredients, vanillin cannot be distilled to give essential oils because it is a solid product. Thus in practice, vanillin from the plant is used either as a plant product itself, for example in the form of beans, in pieces, or as a variety of extracts. Of course it is possible to isolate pure vanillin and use it in the form of powders with various carriers. However, the cost of it, although

wood creosote), eugenol (from clove oil), and lignin (from the waste products of wood pulp). As a result, the vast majority of vanillin used in the F&F industry is from manmade synthesis, however, as in the case of menthol, synthesis routes for vanillin are based on raw materials synthesised by plants.

There are however two important facts that make vanillin a special case. Firstly, recent reports have been published on the synthesis of vanillin from waste PET by using "engineered" bacteria (*E. coli*)⁵. This raises a question related to many other biosyntheses - i.e., what engineering of the microorganism is used in the process? But that is a different story!

The second fact is that ethylvanillin (bourbonal) is used extensively which, considering its flavour and fragrance properties, can replace vanillin and is a permitted ingredient in the food industry - although it does not exist in nature. Ethylvanillin is very similar in organoleptic properties to vanillin but is approximately four times stronger, although it is not as good in terms of taste and odour. It is a purely man-made product and similar to other products in this article, it comes from raw materials from fossil origin.



in special products acceptable, eliminates mass application in practice.

This is possible due to the relatively simple synthesis of vanillin, on the basis of readily available ingredients of plant origin, such as guaiacol (a by-product from

Discussion of the above two examples of aroma chemicals shows (with the possible exception of vanillin from PET, although PET synthesis should be analysed) one very important point concerning so-called "synthetics" as being different from "natural" ingredients in F&F products. Almost all so-called synthetics are products where, and usually for economic reasons, chemists use cheap natural ingredients (for example an enormous number of products from waste turpentine) to synthesise aroma chemicals which are important, but rare and expensive, when obtained directly from plants. However, laboratory and industrial-scale processes only extend synthesis started in plants using more simple and cheaper methods than plants. From a basic chemistry point of view, there is not much difference between synthesis in plants or in industrial reactors.

In conclusion to the above, it should be emphasised that the combined synthesis resulted in similar - i.e., naturally based products - which, in standard procedures, cannot be made 100% pure. In the standard trade and production of flavours and fragrances, single chemicals, when used, are usually 95-99% pure. (See comments on menthol above). There is no economic way to remove all intermediates, side products, catalysts, solvents, etc. Of course the products are always analysed to avoid any harmful trace chemicals. But as usual in chemistry, trace components of no importance are neglected. It is also a case that from a sensory point of view, some impurities add to the quality, and in some cases, these trace compounds are added on purpose. As a result, when we talk about single F&F chemicals, we deal with one "synthetic" = xxxx + chemicals.

There are authors, and unfortunately also legislators, who fight for "complete information", i.e. disclosing all ingredients in essential oils and related products used in market products⁶. Of course they do not care about the impurities in "synthetics" which in some cases may be more dangerous in trace amounts than essential oil ingredients, exceeding concentrations established by "pragmatic administrative decisions" as so-called "potential allergens" in EU Directives. There is no way, and no sense in showing all of the ingredients in consumer products, especially considering the selectivity of demand.

We need this for shampoo but not for soap. Furthermore, the defenders of F&F compositions based on single chemicals seem to miss the obvious fact that there is no way to reconstruct the expected

beauty of the flower or fruit with single chemicals because we do not know the complete composition of ingredients and of course do not have them. There are compounds made of individual chemicals for some fancy perfumes or dishes. There is nothing wrong in the creation and use of curiosities, but they will never replace the beauty of the odour and taste offered by nature. Imagine if you will, a dessert plate with vanilla ice cream flavoured with chopped vanilla beans with a scoop of peppermint



oil flavoured ice cream in the centre, decorated with fresh cut peppermint leaves!

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DI ETHYL PHTHALATE (DEP)

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4711 Original Eau de Cologne

Dr. Geetanjali Ranade, Quintessence Fragrances Pvt Ltd, India
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Perfume has always been the symbol of style, fashion, glamour and luxury and emotional well-being when it comes to 4711. Perfume is Latin word, meaning through smoke, it is now commonly used to describe nice smelling substances. Since ancient times, human has been using different ways to smell good, fresh herbs, flowers, natural oils etc. Over a period of time, after discovery of synthetic chemicals and through the knowledge of mixing in appropriate proportions, perfumers started designing various fragrances and naming them, describing them to create an aura for user.

Original Eau De Cologne, which is studied here, uses natural essential oils, with comforting effect on body and mind. Its formula was secret only to the Carthusian monk who developed it. He presented it to German businessman, Wilhelm Muelhans (1762 -1841) on 8th October 1792 as wedding gift. Muelhans developed this into an eau de cologne worn by men and women. The secret recipe is also called as 'aqua mirabilis' (a miracle water) for its supposed medicinal properties. Mulhens then founded a small factory at Cologne's 'Glockengasse'. When French came to Germany that century, they re-numbered the street addresses and Mulhens got a new address, Glockengasse No 4711, Koln (Cologne) and he decided to use this as a magical ring and differentiated this product naming Cologne 4711. Lovers of this fragrance include the then Tsar of Russia and the Prince of Wales.

The exact composition of the fragrance remains a secret till today. May be the oils are extracted from the flowers/herbs grown in specific garden, under specific conditions. Since 1792, the main ingredients include essential oil of Bergamot, Lemon, Orange, Lavender, Rosemary, Neroli and Petitgrain. Each essential oil adds its fragrance and emotive character to the product.

Top note : Lemon, Bergamot and orange (Citrus, tangy, fresh)

Middle note : Lavender and Rosemary (Herbal, minty)

Base note: Neroli and Petitgrain (Green, floral, tangy, woody)

Key characters are fresh, relaxing and calm. Each essential oil contributing to more emotive feelings. Lets study these one by one

Lemon: (*Citrus limonum*) Antibacterial, Astringent and Detoxifying. It refreshes and revives emotions.

Bergamot: (*Citrus bergamia*) Antibacterial, Antidepressant and Deodorant. It calms nervous system and leads to emotional uplifting.

Orange: (*Citrus sinensis*) Antibacterial, Antifungal, Antidepressant and detoxifying. It works to uplift emotions and feel clean.

Lavender: (*Lavendula augustifolia*) Antibacterial, Antidepressant and Deodorant. It calms emotions and can induce sleep.

Rosemary: (*Rosmarinus officinalis*) Antibacterial, Insect repellent, refreshing. It stimulates and clears mind and energizes emotions.

Neroli: (*Citrus aurantium*) Antibacterial, Antidepressant, Deodorant. It gives soothing effects to emotions

Petitgrain: (*Citrus aurantium*) Antidepressant and Deodorant. It has refreshing yet calming effect on emotional level.

The species variant may be specific to maintain olfactory and therapeutic characteristic of 4711

unique. As we all know in aromatherapy, depending on personal experiences with past memories, the effect of an essential oil is felt. 4711 surely elicit different emotional responses in different people at different situations.



This fragrance will be experienced positively in worn on light yellow, blue green coloured costumes and various combinations, may be black to give get up.



About the author:

Dr. Geetanjali Ranade is a doctorate in biomedical engineering from Indian Institute of Technology, Bombay. She was visiting scientist at National Cardiovascular Canter, Japan for post-doctoral research in brain physiology. She has completed her aromatherapy course from American College of Aromatherapy (Earlier known as Australasian College of Herbal Studies), USA. At present working as Head, Research and Development at Quintessence India Pvt Ltd, Mumbai.

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- ZENOLIDE

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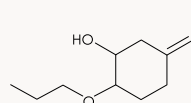
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Ultimately

NOTE IMPACT

TOP	■ ■ ■	High
HEART	■ ■ ■	Medium
BASE	■ ■ ■	Medium

OLFACTORY DESCRIPTION

Unique warm spice reminiscent of cloves embodying natural white floral notes along with smooth tobacco leaves.

CHEMICAL FORMULA

$C_{11}H_{20}O_2$

OLFACTORY TERRITORY

Mystical

CAS NUMBER

2101609-63-4, 1631145-48-6, 01-2120411515-66-0000
1631145-49-7, 2101609-62-3

REACH REGISTRATION

VISUAL DESCRIPTION

Colorless to pale yellow liquid

GC SUMMARY

Sum isomers min. 97%

FLASH POINT

94°C

MOLECULAR WEIGHT

184.0

TYPICAL USE LEVEL

Traces to 1%

VAPOR PRESSURE

0.011949 mm Hg @ 23° C

LOG P

2.50

SUBSTANTIVITY

> 48 hours

PRODUCT

Fine Fragrance

PERFORMANCE

Very Good

STABILITY

Good

Shampoo

Good

Good

AP Deo

Good

Good

Soap

Very Good

Good

Liquid Detergent

Good

Good

Powder Detergent

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Very Good

Candles

Good

Good

Acid Cleaner

Good

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Bleach

Poor

Poor

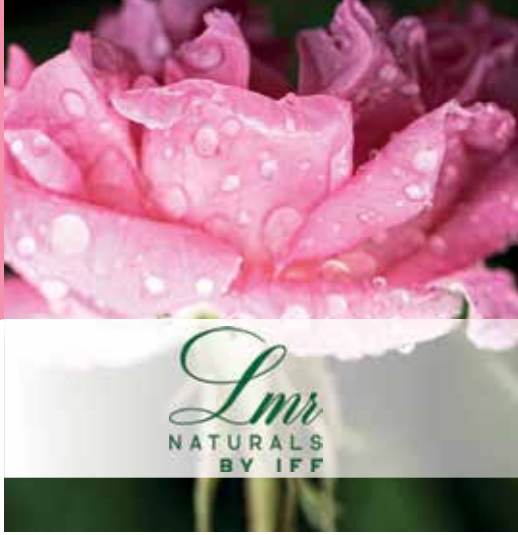


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- JASMINE ABS INDIA *
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- MAGNOLIA FLOWER OIL
- MIMOSA ABS FRANCE

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- BASIL OIL GRAND VERT LMR(EGYPT) *
- BASIL OIL VERVEINA *
- VIOLET LEAF ABS EGYPT *

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- CARDAMOM OIL GUATEMALA
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- HEALINGWOOD BLO

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- CISTE ABS COLORLESS
- LABDANUM RES BLO
- LABDANUM RESINOID 45 PCT TEC BLO

BALSAMIC

- BENZOIN RESINOID SIAM 50 PCT PG BLO
- BENZOIN RESINOID SAIM BLO
- MYRRH OIL LMR *
- MYRRH RESOID 65PCT TEC BLO
- OLIBANUM OIL *
- OLIBANUM RESOID *
- STYRAX RESOID LOW STYRENE BLO

- ROSE ABS BULGARIAN LMR *
- MAGNOLIA LEAF OIL
- MIMOSA ABS INDIA LMR
- NARCISSE ABS FRENCH
- NEROLI OIL TUNISIA
- ORANGE FLOWER ABS TUNISIA *
- ORANGE FLOWER WATER ABS TUNISIA *
- ORRIS 8% NAT 2942C *
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- ROSE ESSENTIAL LOW ME FOR LIFE
- ROSE OIL TURKISH *
- ROSE OIL BULGARIA *
- ROSE ULTIMATE EXTRACT LMR FOR LIFE
- TAGETE OIL MADAGASCAR *
- TUBEROSE ABS INDIA
- YLANG YLANG OIL COMPLETE MADAGASCAR *
- YLANG OIL I MADAGASCAR
- YLANG OIL III MADAGASCAR

- IMMORTELLE OIL LMR
- LAVENDER OIL FRANCE MT *
- LAVANDIN ABS H *
- LAVANDIN ABS ENFLEURAGE 2.0 ORG LMR
- LAVANDIN HEART *
- ROSEMARY OIL TUNISIA BLO
- SAGE CLARY ABS FRANCE *
- SAGE CLARY OIL FRENCH *
- SAGE CLARY OIL GREEN DISTILLED

- MARJORAM OIL EGYPT LMR *
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BALSAMIC

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2-METHYL PYRAZINE	FURFURYL PENTANONE
2-METHYL-2-PENTENOIC ACID	2-ETHYL-3-METHYL PYRAZINE
FURFURYL THIOPROPIONATE	BALSAM TOLU/BALSAM PERU
GRAPEFRUIT MERCAPTEN	LABDANUM RESINOID
CILANTRO ALDEHYDE (Trans-2-Dodecenal)	METHYL OAKMOSS (Evernyl)
CIS JASMONE	2-METHYL BUTYRIC ACID
2-ISOPROPYL-4-METHYL THIAZOLE	2,3, PENTANEDIONE
CIS-6-NONENAL	SULFUROL
MELONYL (Melonal)	TRANS-4-DECENAL
DIMETHYL SULPHIDE	TRANS-2-HEXENAL
p-MENTHA-8-THIOL-3-ONE (THIOMENTHONE)	TRANS-2-HEXENOL
NUTMEG OIL	PADMA
ORANGE TERPENES(D-LIMONENE)	3-PROPYLIDENE PHTHALIDE
ORANGE OIL 5 FOLD,10 FOLD	TRANS-2-OCTENAL
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COPAHU BALSAM OIL
CORIANDERLEAF OIL
CYPRESS OIL
GERANIUM BOURBON REUNION
GALBANUM OIL
GRAPEFRUIT OIL FOLDED 5X/10X
JUNIPERBERRY OIL
LAVANDIN OIL ABRIALIS/GROSSO
LAVANDIN SUPER
LEMON OIL COLD PRESSED
LEMON OIL TERPENELESS
LOVAGELEAF / ROOT OIL
MANDARIN OIL COLD PRESSED – GREEN/YELLOW/RED
MYRRH OIL
NIAOULI OIL
OLIBANUM OIL
PETITGRAIN OIL BIGARADIER /CITRONNIER /MANDARINIER
PIMENTO LEAF/BERRY OIL
ROSE OIL
PINE OIL SACHALINENSIS /SIBERIAN /SYLVESTRIS
ROSEMARY OIL
SAGE OIL OFFICINALIS
SANDALWOOD OIL NEW CALEDONIAN
TAGET OIL
VERBENA OIL
WHITE THYME OIL
ANGELICA ROOT / SEED OIL
BERGAMOT OIL (VARIOUS GRADES)
CADE OIL
CALAMUS OIL
CARAWAY OIL
CHAMOMILE OIL BLUE
CHAMOMILE OIL ROMAN
COGNAC OIL GREEN & WHITE
COPAHU BALSAM RECTIFIED
CORIANDER SEED OIL
CISTUS OIL
GERANIUM OIL EGYPT
GRAPEFRUIT OIL COLDPRESSED
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NEROLI OIL
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BRAN ABSOLUTE/CONCRETE	ELEMI RESINOID
CASTOREUM ABSOLUTE/RESINOID	FENUGREEK ABSOLUTE
COCOA ABSOLUTE	GENET CONCRETE / ABSOLUTE
ENCENS RESINOID	HAY ABSOLUTE
FUCUS ABSOLUTE	JASMIN CONCRETE/ABSOLUTE
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LABDANUM RESINOID	MIMOSA CONCRETE/ABSOLUTE
LAVANDIN CONCRETE/ABSOLUTE	OPOPONAX RESINOID
MATE ABSOLUTE	ORIS BUTTER 8, 11, 15% IRON
MYRRH RESINOID	ROSE CONCRETE/ABSOLUTE
ORANGER CONCRETE/ ABSOLUTE	SON CONCRETE / ABSOLUTE
OSMANTHUS ABSOLUTE	TUBEROSE CONCRETE/ABSOLUTE
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BETA DAMASCONE 98%
DAMASCENONE TOTAL
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BRAZIL



HO WOOD ESSENTIAL OIL

PRODUCT DETAILS

BOTANICAL NAME	CINNAMOMUM CAMPHORA
COMMON NAME	CHINESE LAUREL, SHIUWOOD
ORIGIN	CHINA
PLANT PARTS USED	WOOD
EXTRACTION METHOD	STEAM DISTILLATION
COLOR & ODOR	A PALE YELLOW WITH A SWEET - CAMPHORACEOUS, SOMEWHAT WOODY - FLORAL ODOR.
PLANT FAMILY	LAURACEAE



CHEMICAL COMPOSITION:-

D-camphor (51.3%), 1,8-cineole (4.3%), and α -terpineol (3.8%), linalool (22.9%), and 1,8-cineole (5.3%) were the main constituents of its fruits.

Specific Gravity : 0.85600 to 0.86300

Refractive Index : 1.46000 to 1.46400

Optical Rotation: (-20.00 to -13.00)

BLENDS:

You may find that Ho Wood blends especially well with basil, cajuput, chamomile, lavender, sandalwood and ylang-ylang.

WHAT IS HO WOOD OIL?

The origin of ho wood essential oil is in the *Cinnamomum camphora* tree, which is also known as the camphor tree. It is a tree native mainly to areas of China, Japan, Korea, and Vietnam. Now a days, it is grown all over the world.

The camphor tree contains all kinds of elements. The tree's leaves, its berry-like fruit, and the actual wood are all used in the essential oil production process. The tree's various components produce three very similar oils, which go by the name of 'ho wood', 'camphor', and 'ravintsara' – this last one is NOT to be confused with ravensara essential oil, which is the product of the *Ravensara aromatica* tree.

There are other ways of producing these oils, but steam distillation is generally regarded as the safest and best way to go about it. It certainly leads to the highest quality of oil, which can make a big difference when used for treatment and therapy.

HISTORY:

The Ho Wood's popularity was not great until a major explosion occurred at a Linalool producing facility in 1985. This decreased the supply that was available, making Ho Wood the only available replacement. Ho Wood is famously known to treat Japanese knife and sword handles. This is due to gentle nature and because it will not damage the metal blade like other solutions. The wood is now commonly used in cabinetry and carpentry. Rosewood and ho wood are very similar, however ho wood is a considered more renewable in nature.

TOP 4 BENEFITS OF HO WOOD ESSENTIAL OIL

HO WOOD ESSENTIAL OIL OFFERS ANTI-BACTERIAL BENEFITS

ANTI-INFLAMMATORY

The strong camphor content contained in Ho Wood oil is the main component in making suitable for use as a natural anti-inflammatory. The oil can applied to an affected area with a swab of cotton or other clean piece of material and should be left to soak into the skin. It will moisturize and re-nourish your skin, as well as removing any active bacteria on the area that could worsen the inflammation or cause more irritation.

This works particularly well on fungal infections like athlete's foot and any open or healing wounds.

ANTI-BACTERIAL

The chemical combination of camphor and nerolidol is key in making Ho Wood oil a strong antibacterial

agent. The camphor works superficially to help reduce signs of bacterial infection as well as prevent the continued or recurring growth of bacteria on the affected area. The nerolidol works to allow the oil to penetrate deeply into the skin, allowing the antioxidant effects of the oil to clear your skin from the inside too – promoting cell regeneration and health.

When applied regularly, the nerolidol also acts to stimulate the flow of blood cells under the surface of the skin, which means more nutrients are able to reach the affected area and allow for faster healing.

DIFFUSING

HO WOOD ESSENTIAL OIL FOR DIFFUSING

So “there are many ways to diffuse an oil” should become part of the parlance of our times in my opinion as there really are quite a number of ways to do this. However, from personal experience and I bit of research, I’ve managed to conclude that heat diffusing and an diffusion via atomization are the best methods of utilizing essential oils in a vaporous form.

There are other diffusing methods out there, but they generally tend to denature the oil, thus reducing the quality of the product.

A heat diffuser is really quite a simple process that entails heating the oil with an open source of heat, usually a candle. As the oil is heated, it forms a vapour that will freshen the room that the diffuser is placed in. Atomization is the process whereby liquids (or other materials) are heated to the point where they turn into a vapor on a molecular level. This method is the safest way of retaining a material’s chemical compounds and natural elements, whilst transforming its state.

Ho Wood oil works very well in the diffusion process because it has a calming and refreshing odor that is often used to treat depression in aromatherapy and can also reduce stress or anxiety. The oil also works as a natural pest repellent, so will keep your home free of mosquitos and flies - without the need of harmful chemical agents or poisons.

SKIN CARE

Ho Wood oil has a relatively low comedogenic rating, which means it doesn’t form an oily layer when applied and won’t block up your pores – one of the main causes of blemishes. The high linalool content in the oil, combined with the 1,8-cineole oil helps to replenish essential vitamins in your skin (such as Vitamin E) which help to encourage cell growth and prevents excess sebum oil in oily skin types.

The antiseptic qualities of the oil also remove dead skin cells and kill off any bacteria that might cause infections on the skin or worsen acne. To apply the oil, simply add a drop or two to a cotton swab and apply it to your face preferably after a warm shower and an initial facial scrub. Allow the oil to sit for a few minutes (roughly 5) and clean it off with warm water.

HO WOOD ESSENTIAL OIL BENEFITS FOR BEAUTY

The oil is very well tolerated by all skin types. For the skin and hair :

- Ho Wood oil can purify the skin and scalp, being very useful in acne prone skin types or mycoses.
- It can also help the skin regenerate.
- The oil can strengthen the hair and give it luster.
- It has astringent properties. They lead to a better toning by constricting the blood vessels.
- The oil can make the skin smooth and boost its firmness almost immediately.
- It also soothes and nourishes the skin and hair. Ho Wood is also able to restore their protective barriers. It’s good for normal and dry hair and skin types.
- It is well absorbed and tolerated even by sensitive skin types.
- It calms down inflammations and redness, and deals with psoriasis and eczema. This property is useful in removing dandruff too.
- Ho Wood essential oil is great as anti-aging ingredient as it can slow down the aging process of the tissue.

USING HO WOOD ESSENTIAL OIL:

All essential oils are for aromatherapy use only and are not for ingesting!

BATH & SHOWER:

Add 5-10 drops to hot bath water, or sprinkle into shower steam before getting in for an at-home spa experience.

MASSAGE:

8-10 drops of essential oil per 1 ounce of carrier oil. Apply a small amount directly to areas of concern, such as muscles, skin or joints. Work the oil gently into the skin until it is fully absorbed.

INHALATION:

In conclusion, the benefits of Ho Wood essential oil are enough to make it useful in most situations. It is safe and well tolerated by all skin types, which makes it a great oil to have in your home.

It's a good idea to test any new oil you buy, however. Test even those from different producers, to rule out allergic reactions.

Remember that the best and highest in linalool is the Ho Wood essential oil from China. Or those that come from other Asian countries. **Also, another plus for Ho Wood is that it can be a good substitute for Rosewood essential oil.** The latter is a protected tree, so all the more reason to consider its substitute.



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- Vanillin Iso Butyrate

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- Aldehyde C-18
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- Delta Do Decalactone
- Delta Nonalactone
- Diacetyl
- Ethyl Butyrate
- Ethyl-2-Methyl Butyrate
- Fructose
- Gamma Decalactone
- Maple Lactone
- Milk Lactone
- Sulfurol



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CIS 3 HEXENYL ACETATE
CITRONELLOL
CITRONELLYL ACETATE
CITRONELLYL FORMATE

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DI HYDRO MYRCENOL
EUCALYPTOL
EUGENOL
EUGENYL ACETATE
GERANIOL
GERANYL ACETATE
GERANYL FORMATE
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LIMONENE
LINALYL ACETATE
LINALOOL
METHYL CHAVICOL
MENTHOL ACETATE
MENTHOL
MENTHONE
MYRCENE
OCIMENE
3-OCTANOL
3-OCTANONE
3-OCTANYL ACETATE
3-OCTANYL FORMATE
PARA CYMENE
PHELLANDRENE
PINENES
PHENYL ETHYL ALCOHOL
PHENYL ETHYL ACETATE
PHENYL ETHYL METHYL ETHER
PHENYL ETHYL FORMATE
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SR. NO.	NAME OF THE ITEM	(CURRENT) APRIL 2022	FUTURE TREND
1	A.C.H.P.	925	≈
2	ALDEHYDE C – 10	700	↑
3	ALDEHYDE C – 11	1800	↑
4	ALDEHYDE C – 12 LAURIC	600	≈
5	ALDEHYDE C – 12 MNA	850	≈
6	ALDEHYDE C – 18	800	↑
7	ALDEHYDE C – 8	700	↑
8	ALDEHYDE C – 9	1250	≈
9	ALLYL AMYL GLYCOLATE	825	↑
10	ALLYL CAPROATE	750	≈
11	ALPHA DAMASCONE	6500	↑
12	AMBROXAN / AMBERMOR -EX (AROMOR)	33000	≈
13	AMYRIS OIL	7500	≈
14	ANETHOL SYNTHETIC	1050	↓
15	AQUAMOR/ CALONE / WATER MELON KETONE	14000	≈
16	ARMOISE OIL	13000	≈
17	BACDANOL	1650	≈
18	BALSAM PERU	2200	↑
	BALSAM PERU PURE	4750	↑
19	BALSAM TOLU	3200	↑
20	BENZYL SALICYLATE	375	≈
21	BERGAMOT OIL	20000	≈
22	BETA DAMASCONE	15000	≈
23	BLUE CHAMMOMILE OIL	115000	≈
24	BOISAMBRENE FORTE / AMBERWOOD F	2200	≈
25	BRAHMANOL – F	6000	≈
26	BUCCOXIME	31000	≈
27	BUCHU OIL BETULINA	165000	≈
28	C.P.D/CYCLOPENDECANLIDE	3500	↑
29	CASSIA OIL	1250	≈
	CASSIA OIL (NATURAL)	2200	≈
30	CEDAR LEAF OIL (THUJA OIL)	12000	≈
31	CEDARWOOD OIL (TEXAS)	3350	↑
32	CEDARWOOD OIL HIMALYAN RECTIFIED	825	≈
33	CEDARWOOD OIL VIRGINIA	4250	↑
34	CEDRYL ACETATE LIQUID	1025	≈
35	CINNAMIC ALCOHOL	600	≈
36	CINNAMIC ALDEHYDE	295	≈
37	CINNAMON BARK OIL	16500	≈
38	CINNAMON LEAF OIL	2500	≈
39	CIS 3 HEXENOL	33000	↑
40	CIS 3 HEXENYL ACETATE	32000	↑
41	CIS 3 HEXENYL SALICYLATE	28000	↑
42	CIS JASMONE	11500	↑



MARKET INDICATORS

SR. NO.	NAME OF THE ITEM	(CURRENT) APRIL 2022	FUTURE TREND
43	CITRONELLA OIL (ASSAM)	1150	≈
44	CITRONELLOL	1125	↑
45	CLARY SAGE OIL	19000	≈
46	CLOVE OIL REC 85%	1400	↑
47	CLOVE TERPENES	300	≈
48	COGNAC OIL GREEN	35000	↑
49	CORIANDER LEAF OIL	7500	↑
50	CORIANDER SEED OIL	9000	↑
51	CYCLAMEN ALDEHYDE	1150	≈
52	CYCLOGALBANATE/ ISO ANANATE	1450	↑
53	CYRESS OIL SPANISH	6000	≈
54	D-LIMONENE (ORANGE TERPENES)	450	≈
55	DAMACENONE TOTAL	35000	↑
56	DIHYDROMYRCENOL	725	≈
57	DIMETOL	1250	↑
58	DMBCA	950	↑
59	ETHYL 2 METHYL BUTYRATE	750	≈
60	ETHYL MALTOL	1400	↑
61	ETHYL VANILLIN CHINA	2350	≈
62	EUCALYPTUS OIL 60 %	975	≈
63	EUCALYPTUS OIL 80 %	1150	≈
64	EVERNYL	4200	≈
65	FIR NEEDLE OIL SIBERIAN	8000	↑
66	GALAXOLIDE - DEP 50%	600	≈
67	GALBANUM OIL	30000	≈
68	GERANIOL	875	≈
69	GERANIUM OIL CHINESE	16000	↑
70	GERANIUM OIL EGYPTIAN	9500	↑
71	GUAIAACWOOD ACETATE	4500	≈
72	GUAIAACWOOD OIL	4200	≈
73	HEDIONE / MDJ	1450	≈
74	HELITROPIN	2400	≈
75	HERCOLYN - D / FORALYN	675	↑
76	HEXYL CINAMIC ALDEHYDE	425	↑
77	HEXYL SALICYLATE	450	≈
78	HYDROXY CITRONELLOL	1900	↑
79	INDOLE	1500	↑
80	ISO DAMASCONE	15000	↑
81	ISO E SUPER	725	≈
82	ISO EUGENOL	2100	↑
83	LABDANUM ABSOLUTE	22000	↑
84	LAVANDIN OIL GROSSO	3250	≈



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SR. NO.	NAME OF THE ITEM	(CURRENT) APRIL 2022	FUTURE TREND
85	LAVENDER OIL BULGARIAN	11000	≈
86	LAVENDIN OIL ABRALIS	5000	≈
87	LEMON OIL C.P.	3500	≈
88	LIME OIL CP	4500	≈
89	LIME OIL DISTILLED MEXICAN	5500	≈
90	LINALOOL	1250	≈
91	LINALYL ACETATE	1350	≈
92	LYRAL/ KOVYRAL	1950	↑
93	LYSMERAL	675	≈
94	MALTOL	1500	↑
95	MANDARINE OIL GREEN	9000	≈
96	METHYL BETA NAPHYL KETONE(ORANGE CR)	900	≈
97	MUSK AMBRETTE	2300	↑
98	MUSK KETONE	1700	≈
99	MUSK T	750	≈
100	MUSK XYLOL	1300	↑
101	NEROLI OIL NATURAL	275000	↑
102	OAKMOSS ABSOLUTE	24500	≈
103	ORANGE OIL COLDPRESSED BRAZIL	1550	↑
104	OREGANUM OIL	9000	≈
105	PADMA	800	≈
106	PATCHOULI OIL	3700	↑
107	PETITGRAIN OIL	6500	↑
108	PHENYL ACETALDEHYDE 85%	1000	≈
109	PHENYL ETHYL ALCOHOL	325	≈
110	PIMENTO BERRY	12000	≈
111	RASPBERRY KETONE	1750	↑
112	RESINOID LABDANUM	1550	↑
113	ROMAN CHAMMOMILE OIL	98000	≈
114	ROSE OXIDE INACTIVE	2300	≈
115	ROSEMARY OIL SPANISH	6500	≈
116	SANDENOL CHINA / ICCH	1100	≈
117	TONALIDE PFW	1400	↑
118	VANILLIN CHINA	2500	≈
119	VERTOFIX COEUR CHINA	1900	↑
120	VERTOFIX METHYL CEDRYL KETONE-CHINA	1650	≈
121	VETIVERYL ACETATE	42000	≈
122	VETIVER OIL HAITI	20000	≈
	Intrepretation of symbols;		
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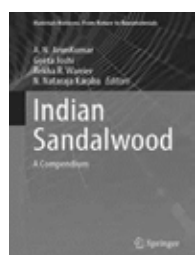


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Kewda: Cultivation and Perfume Production

Pages: 168 pages Binding: Hardback Published: 2021

This book contains **15 chapters** covering **crop production, crop improvement, crop protection, flower production, economics of cultivation, method of production and marketing of perfumes including botany, nomenclature, origin, distribution and systematics of varieties in Kewda and its economic uses** for development of rural economy with generation of man-days in operation of the Kewda distilleries and transport of the perfumes. The book is written in a simplified way for well understanding and to make it very useful for the scientists, professionals and farmers engaged in research and developmental activities of Kewda cultivation and perfume production with marketing of the highly prized Kewda products for a sustainable growth of the industry in the interests of the farmers and traders.



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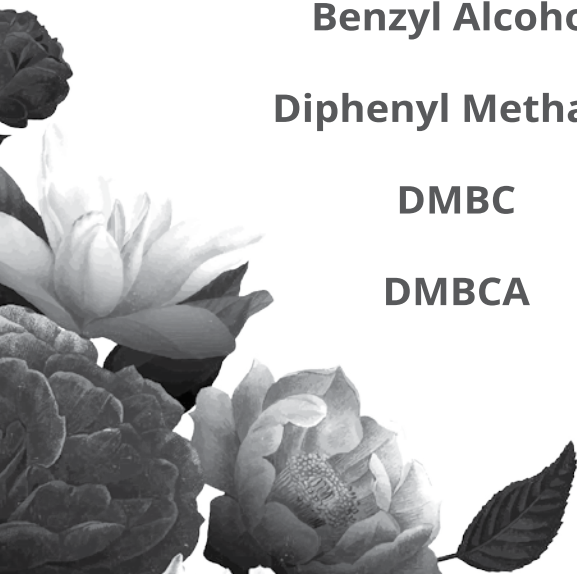
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MARKET INDICATORS

SR. NO.	NAME OF THE ITEM	(CURRENT) APRIL 2022	FUTURE TREND
1	A.C.H.P.	925	≈
2	ALDEHYDE C – 10	700	↑
3	ALDEHYDE C – 11	1800	↑
4	ALDEHYDE C – 12 LAURIC	600	≈
5	ALDEHYDE C – 12 MNA	850	≈
6	ALDEHYDE C – 18	800	↑
7	ALDEHYDE C – 8	700	↑
8	ALDEHYDE C – 9	1250	≈
9	ALLYL AMYL GLYCOLATE	825	↑
10	ALLYL CAPROATE	750	≈
11	ALPHA DAMASCONE	6500	↑
12	AMBROXAN / AMBERMOR -EX (AROMOR)	33000	≈
13	AMYRIS OIL	7500	≈
14	ANETHOL SYNTHETIC	1050	↓
15	AQUAMOR/ CALONE / WATER MELON KETONE	14000	≈
16	ARMOISE OIL	13000	≈
17	BACDANOL	1650	≈
18	BALSAM PERU	2200	↑
	BALSAM PERU PURE	4750	↑
19	BALSAM TOLU	3200	↑
20	BENZYL SALICYLATE	375	≈
21	BERGAMOT OIL	20000	≈
22	BETA DAMASCONE	15000	≈
23	BLUE CHAMMOMILE OIL	115000	≈
24	BOISAMBRENE FORTE / AMBERWOOD F	2200	≈
25	BRAHMANOL – F	6000	≈
26	BUCCOXIME	31000	≈
27	BUCHU OIL BETULINA	165000	≈
28	C.P.D/CYCLOPENDECANLIDE	3500	↑
29	CASSIA OIL	1250	≈
	CASSIA OIL (NATURAL)	2200	≈
30	CEDAR LEAF OIL (THUJA OIL)	12000	≈
31	CEDARWOOD OIL (TEXAS)	3350	↑
32	CEDARWOOD OIL HIMALYAN RECTIFIED	825	≈
33	CEDARWOOD OIL VIRGINIA	4250	↑
34	CEDRYL ACETATE LIQUID	1025	≈
35	CINNAMIC ALCOHOL	600	≈
36	CINNAMIC ALDEHYDE	295	≈
37	CINNAMON BARK OIL	16500	≈
38	CINNAMON LEAF OIL	2500	≈
39	CIS 3 HEXENOL	33000	↑
40	CIS 3 HEXENYL ACETATE	32000	↑
41	CIS 3 HEXENYL SALICYLATE	28000	↑
42	CIS JASMONE	11500	↑



MARKET INDICATORS

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43	CITRONELLA OIL (ASSAM)	1150	≈
44	CITRONELLOL	1125	↑
45	CLARY SAGE OIL	19000	≈
46	CLOVE OIL REC 85%	1400	↑
47	CLOVE TERPENES	300	≈
48	COGNAC OIL GREEN	35000	↑
49	CORIANDER LEAF OIL	7500	↑
50	CORIANDER SEED OIL	9000	↑
51	CYCLAMEN ALDEHYDE	1150	≈
52	CYCLOGALBANATE/ ISO ANANATE	1450	↑
53	CYRESS OIL SPANISH	6000	≈
54	D-LIMONENE (ORANGE TERPENES)	450	≈
55	DAMACENONE TOTAL	35000	↑
56	DIHYDROMYRCENOL	725	≈
57	DIMETOL	1250	↑
58	DMBCA	950	↑
59	ETHYL 2 METHYL BUTYRATE	750	≈
60	ETHYL MALTOL	1400	↑
61	ETHYL VANILLIN CHINA	2350	≈
62	EUCALYPTUS OIL 60 %	975	≈
63	EUCALYPTUS OIL 80 %	1150	≈
64	EVERNYL	4200	≈
65	FIR NEEDLE OIL SIBERIAN	8000	↑
66	GALAXOLIDE - DEP 50%	600	≈
67	GALBANUM OIL	30000	≈
68	GERANIOL	875	≈
69	GERANIUM OIL CHINESE	16000	↑
70	GERANIUM OIL EGYPTIAN	9500	↑
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72	GUAIAACWOOD OIL	4200	≈
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74	HELITROPIN	2400	≈
75	HERCOLYN - D / FORALYN	675	↑
76	HEXYL CINAMIC ALDEHYDE	425	↑
77	HEXYL SALICYLATE	450	≈
78	HYDROXY CITRONELLOL	1900	↑
79	INDOLE	1500	↑
80	ISO DAMASCONE	15000	↑
81	ISO E SUPER	725	≈
82	ISO EUGENOL	2100	↑
83	LABDANUM ABSOLUTE	22000	↑
84	LAVANDIN OIL GROSSO	3250	≈



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86	LAVENDIN OIL ABRALIS	5000	≈
87	LEMON OIL C.P.	3500	≈
88	LIME OIL CP	4500	≈
89	LIME OIL DISTILLED MEXICAN	5500	≈
90	LINALOOL	1250	≈
91	LINALYL ACETATE	1350	≈
92	LYRAL/ KOVYRAL	1950	↑
93	LYSMERAL	675	≈
94	MALTOL	1500	↑
95	MANDARINE OIL GREEN	9000	≈
96	METHYL BETA NAPHYL KETONE(ORANGE CR)	900	≈
97	MUSK AMBRETTE	2300	↑
98	MUSK KETONE	1700	≈
99	MUSK T	750	≈
100	MUSK XYLOL	1300	↑
101	NEROLI OIL NATURAL	275000	↑
102	OAKMOSS ABSOLUTE	24500	≈
103	ORANGE OIL COLDPRESSED BRAZIL	1550	↑
104	OREGANUM OIL	9000	≈
105	PADMA	800	≈
106	PATCHOULI OIL	3700	↑
107	PETITGRAIN OIL	6500	↑
108	PHENYL ACETALDEHYDE 85%	1000	≈
109	PHENYL ETHYL ALCOHOL	325	≈
110	PIMENTO BERRY	12000	≈
111	RASPBERRY KETONE	1750	↑
112	RESINOID LABDANUM	1550	↑
113	ROMAN CHAMMOMILE OIL	98000	≈
114	ROSE OXIDE INACTIVE	2300	≈
115	ROSEMARY OIL SPANISH	6500	≈
116	SANDENOL CHINA / ICCH	1100	≈
117	TONALIDE PFW	1400	↑
118	VANILLIN CHINA	2500	≈
119	VERTOFIX COEUR CHINA	1900	↑
120	VERTOFIX METHYL CEDRYL KETONE-CHINA	1650	≈
121	VETIVERYL ACETATE	42000	≈
122	VETIVER OIL HAITI	20000	≈
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