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THE FAFAI JOURNAL

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CONTENTS

PAGE NO.

First Person - President's Message	3
Pen Strokes - Editorial	5
FAFAI News	25
Indiascope	33
Worldview	41
Focus : Essential Oils :	
Conventional (Natural)	
Essential Oils Vs. Organic Essential Oils	49
From the Archives : Aromagraphia II	57
Essential Oil Review : Chenopodium Oil	65
Calendar of Events	68
Market Indicators	73
Advertisers' Index	102


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INDEX

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Dear Friends,

I am happy to inform you that the preparations for the XXIV FAFAI Seminar at the Lulu Bolgatty International Convention Centre is going on in full swing. We are in the midst of finalising all the arrangements and Mr. Hitesh Mehta, a dear friend and member of our Managing Committee is spearheading these efforts as the Chairman of the Seminar Organising Committee. We are all fortunate to have such a multi-talented person in our Committee and I am personally grateful to him for all the efforts he has been putting in the last few months toward the organisation of the Seminar.

While we are making all efforts to ensure that your visit to the Seminar is both fruitful as well as comfortable, we invite ideas and suggestions from all of you on all aspects of the organisation of the Seminar so that it is more educative and productive for everyone attending it.

Please also treat this as my personal invitation to attend this Seminar and I am confident that your good wishes and presence will help us in hosting a bigger, better and grander Seminar that we shall all remember for a very long time.

With best wishes,

HASMUKH PATEL

President

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It is the mark of an educated mind to be able to entertain a thought without accepting it. ~ Aristotle

Dear Friends,

I came across the above quote even before I had reached my teens and has remained etched in my mind ever-since. As humans discover and conquer newer frontiers each day, as scientific advancement and technological marvels open up new vistas previously unheard of, the average human mind seems impervious to the ever expanding horizon in front of us. This dichotomy, this paradox, today threatens to not only stunt our growth, but also drag our development into an abyss of dogma and ignorance.

Our thoughts, our beliefs, our ideas are a product of our environment, conditioned by external influences like race, religion and culture. It is these things that determine our attitude and our outlook and make out of us what we really are. Can they be changed? Should they be changed? Should we seek to grow or rather outgrow this limitation, to, as they say in Star Trek, "to boldly go where no one has gone before".

They say that a 'comfort zone is a beautiful place, but nothing ever grows there'. So if we believe in the theory of evolution, as humans we cannot sit back at the glory of having reached the pinnacle of the evolutionary chain, but realise that evolution is a continuous process of growth and the survival of the fittest, and we have to unshackle our minds and beings to grow, to think, to explore and to evolve. For that which does not change, does not grow, stagnates and dies.

As craftsmen of a fragrant trade, let us not only be creative with our businesses, but allow the beauty of art pervade into all aspects of our life, and may our minds and hearts be open, such that we are herald a new age not only for ourselves but also for our great nation and our entire civilisation. I pen off by reproducing below the immortal words of a great son of this land Shri Rabindranath Tagore who wrote the following –

*Where the mind is without fear and the head is held high
Where knowledge is free
Where the world has not been broken up into fragments
By narrow domestic walls
Where words come out from the depth of truth
Where tireless striving stretches its arms towards perfection
Where the clear stream of reason has not lost its way
Into the dreary desert sand of dead habit
Where the mind is led forward by thee
Into ever-widening thought and action
Into that heaven of freedom, my Father, let my country awake.*

With fragrant wishes,

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2 Methyl Quinoline	Quinaldine	91-63-4
6,8 Secondary Butyl Quinoline	-	65442-31-1, 67634-06-4
6 Methyl Quinoline *	Para Methyl Quinoline	91-62-3
6 Secondary Butyl Quinoline	Pyralone	65442-31-1
Ambrether	Kephalis	36306-87-3
Diphenyl Methane	-	101-81-5
Fructose *	Apple Ketal, Applitone	6413-10-1
Methyl Benzoate *	-	93-58-3
Methyl Phenyl Acetate *	-	101-41-7
Muguet Carbinol *	Dimethyl Phenyl Ethyl Carbinol	103-05-9
Neo Jasminoid	Projasmane P, Fleuromone	137-03-1
Phenyl Ethyl Iso Amyl Ether *	Anther, Pommerol	56011-02-0
Veticone	Vetikon	7403-42-1
Amyl Vinyl Carbinol *	Matsutake Alcohol	3391-86-4
Amyl Vinyl Carbinyl Acetate *	Matsutake Acetate	2442-10-6
Green Acetal	Heptaldehyde ethylene glycol acetal	1708-34-5
Neo Greenal *	Heptanal propyleneglycol acetal	4351-10-4
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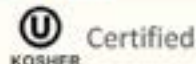


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| 3 Palmarosa Oil | 10 Rosemary Oil |
| 4 Geranium Oil | 11 Cedarwood Oil |
| 5 Basil Oil | 12 Tea Tree Oil |
| 6 Eucalyptus Oil | 13 Saffron RC |
| 7 Tagete Oil | 14 Neroli Oil |

B Indonesian Products

- 1 Patchouli - Sulawesi Minimum 30% & Minimum 27%
- 2 Vetiver Oil

C Italian Products

- | | | |
|----------------|--------------|--------------------------------------|
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| 2 Lime Oil | 4 Lemon Oil | |

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E Specialised Quality of

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F Australia

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G Madagascar

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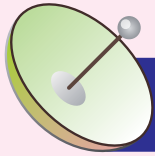
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69TH AGM OF FAFAI

The 69th Annual General Meeting of FAFAI was held at 6.30 p.m. on Saturday, the 7th July 2018 at M.C. Ghia Hall, Kalaghoda, Mumbai .

Representatives of 34 member firms were present.

The activity report of the 35th Managing Committee, the audited accounts for the year 2017-18 and budget for the

year 2018-19 were adopted during the AGM. This was followed by other matters on the Agenda of the AGM which were discussed by the members.

The Hon. Secretary proposed a vote of thanks to the Chair, senior members for their graceful presence and guidance, members of the Association for their active participation, management of the hall for the arrangements and the FAFAI staff for their dedicated work.



69th Annual General Meeting of FAFAI



24th FAFAI SEMINAR

The 24th FAFAI Seminar on the theme **"India - The New Growth Story"** is being organized by Fragrances and Flavours Association of India on January 18-20, 2019 at Lulu Bolgatty International Convention Centre, in the city called the Queen of Arabian Sea, Kochi, previously known as Cochin. With the ultimate objective of development of the Indian Fragrance and Flavour industry, the biennial seminar has always served the right platform for interaction among the participants and exploring business opportunities.

Kochi – well known as "God's Own Country" is the commercial capital of Kerala. It is a finest harbour at the same time a tourist attraction for the people of India and abroad. It is surrounded by several picturesque inhabited islands like, Wellington Island, Bolghaty, Gundu and Vypeen Island. Kochi is a trading centre of Spices right from the time when King Solomon's ship touched this coast, several other sailors from Portugal, China, Arabia, Dutch and Britain also made their way to this most attractive natural port.

Hometown for exotic handicrafts, and sea food preparations, Kochi forms an excellent base to learn performing arts and marshal arts of Kerala like "Kathakali and Kalarippattu respectively.

The conference will have an inaugural function on 18th January 2019 followed by two days of presentations and deliberations. The presentations will include eminent personalities of F & F industry and experts from allied areas.

A Product Display Exhibition will be held in concurrence to the Seminar to give suppliers and customers to discuss and interact about products and new creations.

The conference is expected to bring together about 1200 delegates from all over the world for an exchange of ideas and interaction between customers and business partners.

FAFAI is also bringing out an attractive Souvenir to commemorate the occasion and this will be a good promotional opportunity for all organizations to market their products by placing their advertisements.

For further details please contact FAFAI office

We at FAFAI look forward to seeing you.





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India's Spices exports jump 20% in April-December

Export of spices and value-added spice products recorded a year-on-year increase of 20% in volume terms and 4% in rupee value during the first three quarters of current fiscal, state-run Spices Board said recently. India exported 7,97,145 tonne of spices and products valued at Rs. 13,167.89 crore during April-December 2017 as against 6,63,247 tonne valued at Rs. 12,607.46 crore in the corresponding period of 2016. In dollar terms, spices exports were pegged at \$2,041.23 million as compared to \$1,880.02 million, notching an increase of 9% in value.

Large shipments of small cardamom, cumin, garlic, asafoetida, tamarind and other seeds (ajwain or Bishop;s weed, mustard, dil and poppy seed) propelled an increase both in volume and value, thus contributing substantially to spice export basket and earning precious forex for the country. The export of value added products like curry powder and mint products, spice oils and oleoresins also increased in volume and value while export of chilli, coriander, fennel and nutmeg and mace registered an increase in terms of volume only.

Spices Board Chairman Mr. Jayathilak noted that exports of spices like chilli showed a decrease in value despite increase in export volumes. This has happened because of volatility in international spices trade.

Cumin was the second most exported spice, recording an increase of 15% in volume and 19% in value. A total volume of 1,04,260 tonne of cumin fetched Rs. 1,761.70 crores as against Rs. 1,480.79 crores and 91,024 tonnes. It was small cardamom that registered maximum export growth both in terms of value and volume during the period. A total of 4,180

tonnes of this spice valued at Rs. 456.01 crores was exported during April-December 2017 as against 2,910 tonnes worth Rs. 297.80 crores during the corresponding period in 2016, registering an increase to 44% in volume and 53% in value.

Mint products accounted for 16,500 tonnes in volume and Rs. 2220.36 crores in value as compared to 14,850 tonnes and Rs. 1645.55 crores in 2016, registering an increase of 11% in volume and 35% of value, respectively. Garlic also chipped in substantially with a total volume of 37,830 tonnes valued at Rs. 255.58 crores as against 19,729 tonnes and Rs. 196.06 crores, respectively in the first three quarters of FY 2016-17.



As for value added products, the export of curry powder or paste was 25,200 tonnes worth Rs. 517.52 crore as against 23,027 tonnes valued at Rs. 468.35 crores, registering an increase of 9% in volume and 10% in value. During the period, 12,700 tonnes of spice oils and oleoresins valued Rs. 1873.22 crores were exported as against 9,251 tonnes and Rs. 1695.17 crores a year ago, marking an increase of 37% in volume and 11% in value.

- Beverage & Food World

FBOs must declare labelling of foods with GMOs, states FSSAI

FSSAI's draft on labelling regulations has made it mandatory for food business operators (FBOs) to declare the labelling of genetically – engineered (GE) or modified (GM) foods, adding that all food products having five percent or more genetically-engineered ingredients shall be labelled. The total GE ingredients shall be of the top three ingredients in terms of their per centage in the product. The labelling shall read, contains genetically – modified organisms (GMO)/ingredients derived from GMO"



FSSAI has also defined high fat, sugar and salt (HFSS) foods as processed food products having high levels of total fat or trans-fat or total sugar or salt under the draft regulations released related to labelling regulations.

According to the Draft, nutritional information per 100 kg or 100 ml of the product and per serve percentage contribution to RDA calculated on the basis of 2000 kcal energy, 67 g total fat, 2g trans-fat, 50g total sugar and 5g salt (sodium chloride) requirement for the average adult per day, shall be given on the label.

The draft said, the declared values of these ingredients are such that the product; does not satisfy the value of energy (kcal) from total sugar less than 10% of total energy, or energy from trans fat less than one per cent of total energy; or has total fat or sodium above the thresholds specified under Schedule-1 of these regulations”.

Schedule-1 defined the nutrients threshold for food categories of total fat per 100g/ml and sodium per 100mg/ml. The FBOs needs to label their product, according to new norms prescribing the details once the draft is accepted and made into a final regulation.

The draft also prescribed for the FBOs a green coloured filled triangle inside a square with a green outline for vegetarian products, and brown coloured filled circle inside a square with a brown outline for non-vegetarian products with specified size.

Further the draft also prescribed a black-coloured cross inside a square with black outline, having the sides of square for food material not meant for human consumption.

- Beverage & Food World, May 2018

Dabur completes acquisition of two personal care product firms in South Africa

FMCG major Dabur India said it has completed acquisition of two South Africa based companies - D & A Cosmetics Proprietary Ltd. And Atlanta Body and Health Products Proprietary Ltd. - through its subsidiary.

The company had last year announced that it would acquire the two personal care products companies in South Africa for a total cash consideration of 50 million Rands (about Rs. 25 crore.)

In a stock exchange filing, Dabur India said its wholly owned subsidiary Dermoviva Skin Essentials Inc has acquired 100% share capital of the companies. Accordingly, both the



companies have become step down wholly-owned subsidiary companies of Dabur India Ltd., it added.

This is not Dabur’s first acquisition in South Africa. In 2016, it had acquired Discaria Trading (Pty) Ltd., and in April last year it had announced completion of acquisition of the personal, hair care and creams businesses of the CTL group of companies valued at \$1.5 mn (Rs. 10 crore).

As per the last year’s announcement, while D & A Cosmetics is acquired at a cost of 47.94 million Rands (around Rs. 24 crore), Atlanta Body and Health Products acquisition cost was 2.06 mn Rands (over Rs. 1 crore).

- Hpicindia, April, 2018

GNFC targets Rs. 500 cr. sales from neem-based personal care products

Gujarat Narmada Valley Fertilizers and Chemicals (GNFC) is bullish on the FMCG segment after the successful rollout of its neem-based personal care products according to a report in the Hindu Business Line.

The State-run PSU, which uses neem derivatives for making personal care products, including soaps, is eyeing Rs. 500 crore business from this segment in the next two years. The steady rise in demand has prompted the management to chalk out production as well as network expansion plans.



“Currently, we have 21 products and plan to add new products. We shall expand our network from 22,000 shops to one lakh outlets by the end of this year. We are also ramping up our handwash and mosquito repellent production capacity,” said Mr. Rajiv Kumar Gupta, Managing Director, GNFC.

“We have always believed in the potential for neem-based products. As a segment, it has the potential to reach Rs. 500 crore in the next two years, provided there is adequate infrastructure to produce and market it,” he added. Currently, GNFC has less than Rs. 100 crore coming from the neem based FMCG products.

Urea neem-coating

Implemented in 2015, the neem project is seen as backward integration of neem oil production by creating shared value for rural and urban poor as well as empowering women by providing livelihood.

To avoid misuse of urea by industries, the government made neem coating of urea mandatory. GNFC spotted an opportunity and developed an integrated model led by rural women for seed collection and procurement. These neem seeds are processed to get cake and extract oil, which is used for coating area.



Empowering women

For neem-coating 310 lakh tonnes of urea, about 26,000 tonnes of neem oil is required, for which about 3.65 lakh tonnes of seeds need to be collected. This has the potential to empower over 6-mn women across the country. During the last three years, by collecting over 45,000 tonnes of neem seeds, GNFC generated additional income of over Rs. 45 crore

for 4.5 lakh women in 53 districts across six states. Neem seed prices improved to Rs. 16 a kg from Rs. 2 earlier in the unorganized sector.

GNFC now looks beyond women beneficiaries and plans to engage landless labourers as stakeholders in manufacturing of neem-based products.

As a forward integration, GNFC is looking to skill women, to make products such as hand-wash, shampoo, face-wash, hair oil, mosquito repellent, de-oiled cake, and pesticides among others.

- Hpicindia, May 2018

FSSAI studying global norms before finalising labelling regulations

The Food Safety and Standards Authority of India (FSSAI) is looking at global model adopted by various countries for labelling standards of packaged foods. This is being done before the Food Safety and Standards (Labelling and Display) Regulations, 2018, is finalised by the government.

In April, the regulator released the draft of the labelling regulations which has proposed front-of-the-pack nutritional information, besides red colour coded labels for foods which have high levels of fat, sugar and salt content. Some food companies have raised concerns about the red colour coded labels.

Mr. Pawan Agarwal, CEO, FSSAI, said, “Food Business have no issues with front-of-pack labelling. They have raised concerns regarding the thresholds and colour-coded labels for HFSS foods. We are looking at various global models such as the Australia - Newzeland model that has voluntary star rating or the Mexico and UK model. We are seeking comments and views from stakeholders on the same before we finalise the labelling regulations”. The labelling regulations are likely to be finalised in the next two three months.

“We want food businesses to begin taking cognisance of the fact that whatever they produce is important from a public health perspective and not just from their bottom-line perspective. It is being done in consumer interest. We have asked food companies for their game plan to look at launching healthier food options in the market”, he added.

“FSSAI has also proposed that a company must make a delegation on the label in case its food product has 5 per cent or more of genetically engineered or genetically modified

ingredients. This has been proposed to increase consumer awareness. Imported GM food is coming to India whether it is in the form of Soya products and edible oils. In case of oils, GM is negligible.' He added.

- Chemical Weekly, June 5, 2018

Licence and registration certificates to FBOs to be issued online

FSSAI has decided to issue license or registration certificates to food business operators (FBOs) online.

The certificates will be sent directly to the FBOs' registered e-mail address or the Food Licensing Registration System (FLRS) bin instead of sending across a hard copy of the FBOs address. The decision has come into effect from May 1, 2018.

Among other things, the certificates shall carry a statement at the end, which will state that this is a computer-generated licence / registration certificate and does not require signature of the licensing/registration authority. Further, the licence/ registration certificate will bear a quick response (QR) code as a security feature to verify the licence or registration certificate.

SMS alert

The computer-generated copy of licences / registration certificates will be sent to the registered e-mail address of FBOs, the email addresses of the persons nominated for complying the conditions of licences by the FBO, in the FLRS bin of the FBO and an SMS alert in this regard will be sent to the FBO concerned for information at the time of generation of the certificate. Explaining further, Garima Singh, Director, Regulator Compliance, FSSAI headquarters, said that based on computer-generated certificates, the FBOs will be in a position to start their businesses immediately.

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- LABDANUM RESINOID
(LABD K-15812-2)

AROMATIC

- LAVANDER RECON ECO
- LAVANDER RECON EXTRA
- LAVANDIN RECON
- LAVANDIN RECON ECO

BALSAMIC

- BENZOIN RECON FFPL BZ110
- OLIBANUM RECON MOD-2
- PERU BALSAM RECON BH
- STYRAX RECON FFPL ST010

FLORAL

- GERANIUM RECON POWER
- GERANIUM RECON SUPER
- YLANG OIL SYNTH
- YLANG RECON ECO

HERBAL

- ROSEMARY RECON IND

GREEN

- GALBANUM RECON FFPL GB002

MOSSY

- OAKMOSS RECON
- OAKMOSS RECON IND

SPICY

- PIMENTOBERRY OIL RECON
PM200

WOODY

- PATCHOULI OIL RECON 015



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FAHE

Symrise invests in American fragrance start-up

US based natural fragrance start up, Phlur, recently announced the first closing of its series A funding round led by Germany's Symrise. Phlur received \$6-mn in funding, bringing its total financing thus far to \$12-mn.



Phlur is Symrise's first ever investment in a fragrance brand. The new funding will allow the direct-to-customer fragrance brand to continue aggressively scaling its business, diversifying its marketing activities, launching new distribution channels and extending into body care.

Each Phlur fragrance is created with non-toxic, sustainability sourced ingredients, and are devoid of parabens, phthalates, BHT and other preservatives. Additionally, for each 50-ml bottle sold, the brand donates \$5 to the International Union for the Conservation of Nature.

Symrise is said to have created four of the brand's existing fragrances and is bullish on the Phlur business model.

Symrise's Global President of scent and care – and soon-to-be Phlur board member Mr. Achim Daub – dubbed the fragrance brand as being "a category disrupter in a market, which has seen no real innovation over at least the last decade". "As one of the world's premier fragrance suppliers, our ambition is to embrace new opportunities arising from the digital revolution and through that help shape the markets of tomorrow. Phlur is a great investment as well as an amazing platform for learning, and we are thrilled at the opportunity to help continue the brand's growth, he said.

Hpicindia, April. 2018

Symrise opens new creative centre in Shanghai

German fragrances & flavour firm, Symrise inaugurated its new creative centre in Pudong, Shanghai on April 11, 2018. The new centre, set up with an investment about Euro 8 mn, will house experienced perfumers who will develop almost 9,000 different fragrances for the Chinese market every year. The centre will include a fragrance creation and compounding area with doubled working space, an application laboratory for customer samples, hair and home care test rooms as well as consumer insights facilities. "With our new creative centre in Shanghai, we have created a cutting-edge environment for our fragrance creation," said Dr. Heinz-Jurgen Bertran, CEO of Symrise.

Symrise started its business activities in China back in 1982 as one of the first joint ventures ever in Shanghai. This milestone in the company's history made Symrise the first International supplier of fragrances on the Chinese mainland. The company had sales of around Euro 3-bn in 2017.

Production site

As part of its growth strategy, Symrise is setting up a new production facility for fragrances and flavours in Nantong at a total investment of Euro 83 mn. In April, Symrise celebrated the completion of the first phase of construction of the Nantong facility.

"The around 5-hectare plot of land will allow Symrise to further exploit the growth opportunities and expand the capacities in the coming years. The new operation is the second production site in China, which is becoming the world's largest flavour and fragrance market, the company said.

Chemical Weekly May 22, 2018

IFF to partner with Israeli firm on novel visual Fragrance Technology

US based International Flavors and Fragrances Inc (IFF) has announced a partnership with Amkiri, an Israeli based start-up, for the latter's "Visual Fragrance Technology" – a new 'ink' that can be drawn on the skin that also delivers a long lasting fragrance, thus connecting the senses of sight and smell.

Amkiri had launched the product on March 22. The patented "Visual fragrance" is applied to the skin using specially designed applicators, allowing the user to adorn themselves with individual multisensory body art. The formula is long-



wearing and can work with any fragrance or colour.

"This is a significant innovation in the fragrance category, merging strong and deeply personal visuals with the resonance and emotion of fragrance," said IFF Chairman and CEO Mr. Andrea Fibig. "The Visual Fragrance technology creates a new platform from which IFF can showcase our capabilities, including naturals, molecules, and cosmetic actives. The potential for innovative applications are nearly endless and our teams are truly inspired by the possibilities," he added. "This extremely emotionally engaging technology brings a very timely category innovation to the market place," pointed out Mr. Nicolas Mirzayantz. IFF Group President, Fragrances.

Chemical weekly, June 5, 2018

Asian region gaining traction in global natural & organic cosmetics market

The recent acquisition of New Zealand based Trilogy reflects the growing importance of Asia in the global market for natural and organic cosmetics. CITIC Capital China Partners, a Hong Kong based private equity firm, paid \$ 2.11 mn for Trilogy, which is the leading natural skincare brand in its home country and has a significant footprint in Asia and the US.



Ecovia Intelligence (formerly known as Organic Monitor) believes a major motive for the purchase is expansion in the fast growing Asian market. Natural & Organic cosmetic sales in Asia increased by 21% last year, compared to single digits in Europe and North America. Asia is high growth potential, considering the market share of total cosmetics remains below 1% in almost all country markets, Ecovia said.

John Masters Organics, a leading American Organic personal care brand, was purchased by a UK investment firm mainly because of its strong presence in Asia. It was acquired, along with its Japanese distributor, for \$336 mn two years ago. Chinese companies have also purchased European brands of natural cosmetics to expand in the Asian market.

Demand for natural & organic cosmetics has taken off in Asia as consumers become more aware of synthetic chemicals in cosmetics & toiletries. Following the trend in Europe and North America, investment is now pouring into the Asian market," Ecovia stated.



The UK based consulting & research firm predicts the highest growth in the Chinese and Indian markets. China is already the number one Asian market for some western brands. It represents over half of Asian sales of Jurlique, the leading Australian natural cosmetics brand. L'Occitane has just announced that China is now the second largest market for its natural based cosmetic products.

Distribution network

Ecovia noted that distribution is a major challenge for natural & organic cosmetic brands in Asia. It does not have the same distribution infrastructure for natural and organic products as Western Markets. Thus, many brands are taking the direct route and opening concept stores. Some, such as the Indian organic cosmetics firm Azafran Innovation are focusing on building distribution networks. It has an aggressive plan to expand its retail outlets from 1,500 to 10,000 this year.

Multinationals are also looking to expand their presence in the Asian market. P & G acquired the Snowberry brand of

natural skincare products a few months ago. Unilever has purchased a brace of natural personal care brands in the last few years; they include Schmidt's Naturals, Sundial Brands, REN Skincare, as well as Seventh Generation. It has also made investments in True Botanicals and Gallienee. Ecovia expects the multinational to utilise their distribution networks to introduce some of these brands in Asia.

Standards

Standards are another major challenge for the Asian and global market for natural and organic cosmetics. COSMOS and NaTune are now established in Europe, however adoption rates in North America and Asia remain low. According to Ecovia, certified products represent less than 10% of natural & organic cosmetics in North America.

Ethical labelling

Ecovia also highlighted the emergence of new ethical labelling schemes. In Europe, vega and fair trade labels are now established on cosmetics and personal care products. In the US, Burt's Bees has moved away from the NPA natural standard, opting for the National Eczema Association seal of acceptance for its sensitive skin care line. Allergy certified launched its skin Allergy certified standard in 2013, and now has over 450 certified products. The Made Safe and Environmental Working group (EWG) verified Program are also becoming popular. The later has 1,286 certified personal care products.

As consumers increasingly look for certified products, it is highly likely that some of these new labelling schemes will gain popularity in Asia. With growing proliferation in standards and labelling schemes, a major decision for brands, is not which ones, but how many to adopt, "Ecovia stated.

Ecovia will discuss most of these issues during its events planned for 2018.

-Hpicindia, May 2018

Global colour cosmetics sales to grow 6% in 2018 : Mintel

UK based market research firm, Mintel has forecast the global colour cosmetics sales to exceed \$48-bn in 2018, up 6% from 2017. The US (\$12.1bn), Japan (\$6.4 bn) China (\$5.1 bn), the UK (\$2.7-bn) and south Korea (\$2.2-bn) are forecast to be the top five colour cosmetics markets in 2018.

Mintel highlighted four macro-trends in the category: social media, sustainability, transparency, and hybridisation.



Social Media

As the success of influencers has shown that people but personality, and not simply the products, it has become more important for brands to have a personality. Social media gives brands a way to build a more intimate relation with consumers. They also encourage makeup users to adopt new habits. "As fashions change, new 'selfie-friendly' zones of the face are receiving more attention," said Ms. Charlotte Libby, Mintel's Global Colour Cosmetics Analyst.

Sustainability

The whole beauty industry is shifting towards natural and organic products. Colour cosmetics make no exception with an increased attention on product origin and quality of ingredients. In such a context, brands will be expected to demonstrate their ethical policies and consideration of resources and alternatives. "Consumers are drawn to brands that act responsibly. Attempting to reduce the carbon foot print by taking waste is an area in which colour cosmetics brands can innovate. Alternative materials like bamboo, coconut husk and rice bran have been a growing trend in packaging," said Ms. Libby.

Transparency

Young consumers want to be sure the companies and brands they buy from align with their personal views. Brands need to convince consumers their positioning is genuine. "A strategy involving charitable donations needs to be long term and treated appropriately, becoming part of the core business of the company." Added Charlotte.

Hybridisation

As consumer demand for make-up with skincare benefits increases, there is more opportunity for brands to develop hybridisation between categories. "As part of growing



concerns around pollution, face make up can act as another layer of protection. Hence, it is important that colour cosmetics incorporate skincare benefits such as hydration and UV protection. Probiotics also have a chance to grow; a prominent trend in skincare, connecting good bacteria to healthy skin, they are increasingly being used in colour cosmetics too." Stated Ms. Libby.

Amyris and Firmenich join hands to develop bio-based fragrance ingredient

Amyris, the US based industrial bioscience company, is collaborating with Swiss fragrance maker, Firmenich, to support the development and commercialisation of Z11. This sustainable and cost effective version of Firmenich's iconic Z11 molecule was developed using Amyris's proprietary technology to develop a reliable and sustainable supply of an intermediate, using a fermentation based production process, for which Firmenich has then applied its proprietary green chemistry.

"We are pleased with our ability to support Firmenich's product innovation as they continue to be a leader in developing game-changing ingredients for their customers," said Mr. John Melo, President & CEO of Amyris. "Amyris has collaborated with Firmenich since 2010, successfully growing a palette of bio-based fragrance ingredients and intermediates as Firmenich continues their legacy of providing the finest ingredients well into the future, with the added benefit of being derived from a sustainable resource," he added.

-hpicindia, May 2018

TechnicoFlor opens creative centre in Dubai

French Flavor & Fragrance company, TechnicoFlor, is opening a creative centre in Dubai. With a total surface area of approximately 300 m2, the Dubai facility will feature a sampling laboratory and an olfactory and aromatic creative centre.

This new investment follows the opening of an office in Bangkok in 2016 and the construction of a new production site in France.

The group's goal is to better meet the needs of its customers in the Gulf countries and the Middle East, including the United Arab Emirates, Iran and Pakistan, which are big consumers of perfumes.

"These markets have unique and well-differentiated olfactory preferences, and it was important for TechnicoFlor to dedicate a specific centre for them". Explained Mr. Francois-Patrick Sabater, TechnicoFlor's founder and CEO.

Since its creation in 1982, TechnicoFlor has tapped into international markets. The family-owned company sells its products in more than 60 countries including the middle East, Asia, Western and Central Europe. It generates more than 70% of its turnover (almost euro 60 mn in 2017) from exports, particularly in Asian markets.

"With production centres in China, France, Miami and Jakarta, creative centres in Marseille, Paris, Dubai and an office in Singapore, we are able to create olfactory and aromatic compositions that meet all types of expectations for a wide array of markets and to supply our customers all over the world." Said Mr. Sabater.



The group aims to continue its international expansion with the upcoming opening of another creative office in New York and further aims to enter the Brazilian and Indian markets.

In France, TechnicoFlor is recently started a Euro 12 mn investment for the construction of new production facilities in Marseille. The expansion will help the company to double its production capacity.

Hpicindia, May 2018

IFF to acquire Israel's Frutarom for \$7.1-bn

American fragrances & flavours firm, International Flavours & Fragrances Inc (IFF), has agreed to buy Israeli flavours and Ingredients maker Frutarom for \$7.1 bn in cash and stock. Frutarom sells more than 70,000 products, such as natural colours, health and beauty ingredients, natural food protection and enzymes, in 150 countries to mainly mid-sized companies.



The flavours & fragrances sector was expected to consolidate after Swiss firm Givaudan said in March that it planned to launch an offer for French natural ingredients firm Naturex and Israeli media had reported that Frutarom had attracted takeover interest.

IFF's takeover of Frutarom, which has been approved by both boards, would be the second largest of an Israeli company, behind Intel's \$15-bn purchase of Mobileye.

IFF said the acquisition unites two firms with complementary customers, capabilities and geographic reach that would result "in more exposure to fast-growing end markets." Under the terms of the IFF deal, Frutarom's shareholders will receive \$71.19 in cash and 0.249 per share of IFF common stock for \$106.25 per share. IFF which is paying an 11% premium to Frutarom's May 6 close, also will assume its net debt and the two companies are projected to have combined revenue of \$5.3 bn in 2018.

At present IFF is broadly on par in revenues with Germany's Symrise with Euro 3.1-bn (\$3.7 bn) is expected 2018 sales and unlisted Firmenich of Switzerland.

IFF has about 3,000 customers, about half of whom are global multinationals, while Frutarom has about 30,000, one-third of which are private label, while 70% are smaller to mid-sized companies.

"We see in food and cosmetics that some of those small companies have much higher growth rates than the big Unilevers of the world," IFF Chairman and CEO, Mr. Andreas Fibig, told Reuters.

Many consumer goods giants have struggled to post impressive growth in recent years as shoppers put increasing value on fresh and natural products, leading to breezy demand for the enzymes, antioxidants, health ingredients and natural colours both companies sell.

Until recently, "the whole space was probably dominated by four players; now we have two players, Givaudan and IFF, who are the clear leaders in that space and everybody else is second-tier or very small and I think that's part of the industry consolidation and that's what's driving us as well," Mr. Fibig told Reuters.

Frutarom, with a market value of \$5.7-bn and which targets annual revenue of 2.25-bn by 2020, has been growing through a steady stream of acquisitions in recent years, having bought 12 firms in 2017. More than 75% of its sales are in natural products.

IFF will remain headquartered in New York and maintain a presence in Israel. Frutarom CEO Mr. Ori Yehudai will be strategic adviser to Mr. Fibig.

Chemical Weekly May,22, 2018

Frutarom acquires majority stake in Argentina's Meroar

Israel's fragrance and flavours market, Frutarom, has announced its second deal of the year, with the acquisition of a 70% stake in Argentinian flavours and fragrances group, Meroar, for \$11.2 mn. The agreement includes an option to buy the balance of Meroar's shares after 3 years at a price based on the company's business performance during the period.



"The Meroar acquisition constitutes a significant first entry for Frutarom into Argentina and is yet another strategic acquisition of an activity in Frutarom's core field which will enable us to offer our customers a broader range of innovative solutions, and an important step in implementing Frutarom's strategic plan to develop a worldwide business of fragrances, particularly in emergin markets with high growth rates," said Mr. Ori Yehudai, President and CEO at Frutarom.

The company has now racked up 37 acquisitions since 2013 and shows no signs of slowing down with an outstanding pipeline of further strategic acquisitions'.

hpicindia April, 2018

Report sees global organic personal care ingredients market crossing \$11-bn by 2025

The global organic personal care ingredients market size is projected to reach \$11.1 bn by 2025, according to a new report by Grand View Research Inc. exhibiting a CAGR of 5.5% during the period from 2017 to 2025. Some of the major growth stimulants of the market are raising concerns regarding use of chemicals in cosmetics and spiralling demand for natural and organic skin care products.



Emollients held a significant share in the market in 2017 and are likely to continue this trend over the forecast period. Demand for emollients is poised to be largely driven by positive trends in the cosmetic, skin care and hair care industries, North America was the largest market for organic personal care ingredients in 2017. The region will continue to dominate the market until 2025.

Further key findings from the report suggest :

In terms of product, the sulfar polymers segment is projected to cross a valuation of \$5 bn by 2025, at a CAGR of 7.7% from 2018 to 2025.

In terms of revenue, the active ingredients segment is expected to rise at CAGR of 6.7% over the forecast period, since they are responsible for absorption and acne reduction

of skin, and thus used in a variety of skin care formulations.

Skin care dominated the global market in terms of revenue, commanding over one third of the market in 2017, owing to the ability of natural ingredients to impart antioxidation properties and improve skin health when used in skin care product formulations.

The US organic personal care ingredients market is anticipated to exceed 2,249 kilotons by 2025, owing to presence of various manufacturers and suppliers of organic personal care ingredients in the country.

Chemical Weekly, June12, 2018

Global Silicone surfactants market to be worth over \$200 mn by 2022

The market for silicone surfactants is projected to grow from \$151.7 mn in 2017 to \$207.5 million by 2022, at a CAGR of 6.5%, according to a report from Markets and Markets. The rising demand from the personal care and other end use industries is anticipated to drive the growth. However, the high cost of silicone surfctants is expected to constrain the market growth.

The report segments the silicone surfactants market on the basis of application (emulsifiers, foaming agents, defoaming agents, wetting agents, dispersants), end-use (personal care, construction, textile, paints & coatings, agriculture), and region.

In terms of application, the emulsifiers segment led the market in 2017, due to rising demand emulsifiers from the personal care, construction, and paints & coatings industries. Silicone surfactants have low surface tension in comparison to hydrocarbons surfactants and are strong emulsifiers, which make them suitable for various end-use industries.

Based on end-use, the personal care segment led the market in 2017. Rising demand for non-hazardous ingredients in personal care products is expected to fuel future growth the report said.

Based on region, the silicone surfactants market in Asia Pacific is expected to grow at the highest CAGR from 2017 to 2022. The increasing demand for silicone surfactants from the personal care industry in China and India is anticipated to drive the growth.

The report noted that the total production volume of silicone surfactants is considerably lower as compared to other conventional surfactants, and the production involves capital intensive processes. This factor eventually leads to a rise in the cost of silicone surfactants and therefore the growth could be constrained.

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Conventional (Natural) Essential Oils Vs. Organic Essential Oils

Gaurav Mittal **

Abstract

With the increasing demand of the Naturals' in the world market, Essential Oils play an important role that contribute to the making of many perfumes, cosmetics, pharmaceuticals, aromatherapy products. Etc. Essential oils derived from 'Nature' are always sustainable as compared to synthetics and are also safer to be used in the above- mentioned applications. With the increasing consumer knowledge for begin safer and healthy the Conventional (Natural) Farming are being converted to Organic Farming and the products those are cultivated from these farming methods are extracted by Steam Distillation and / or Super Critical CO2 extraction methods to make Essential Oils.

1. What is an Essential Oil?

An essential oil is a concentrated hydrophobic liquid containing volatile aroma compounds from plants. Essential oils are also known as volatile oils, ethereal oils or simply as the oil of the plant from which they were extracted. Oil is "essential" in the sense that it contains the "essence of" the plant's fragrance- the characteristic fragrance of the plant from which it is derived. Technically, essential oils are steam volatile, aromatic oils, different from fatty oil and the oils, which obtained by enzymatic action.

2. Conventional / Natural Farming:

2.1 What is Conventional / Natural?

'Natural' means Nature. All the products that are made using the 'Nature' occurring products are known as Natural.



2.2 How Natural Products are made?



– This is an Agricultural practice in which we do not synthesize the products by any chemical process but use the normal cultivation practice to grow a Natural Crop. Plants need to be fertilized because most soil does not provide the essential nutrients required for optimum growth. There are six primary nutrients that plants require. Plants get the first three—carbon, hydrogen and oxygen—from air and water. The other three are nitrogen, phosphorus and potassium that are provided to soil by In-Organic means. Nitrogen helps plants make the proteins they need to produce new tissues. Phosphorus stimulates root growth, helps the plant set buds and flowers, improves vitality and increases seed size. Potassium improves overall vigor of the plant. It helps the plants make carbohydrates and provides disease resistance.

Inorganic Sources of N in NPK Blends:

- Urea
- Urea Ammonium Nitrate
- Anhydrous Ammonia

Corresponding Author Email: gaurav@aromaticandallied.com (Gaurav Mittal**)

Managing Director - Aromatic & Allied Chemicals, Bareilly – 243001, India. Tel: +91 581 2560560, 2561789

Vice President & Perfumer – L' Soul Fragrances, Bareilly

Inorganic Sources of P in NPK Blends:

The primary source of inorganic phosphorus is phosphate rock. Crushed phosphate rock can be applied to soils directly, but it is much more effective if processed to be more readily available for plant uptake.

Inorganic Sources of K in NPK Blends:

The primary inorganic source of potassium for use in NPK fertilizers is potash. Like phosphate rock, potash is mined all over the world and processed into a more refined product. Potassium can also come from potassium sulfate, langbeinite, and granite dust.

This process also involves growing & protecting the crops naturally by use of Pesticides (to control pests), Insecticides (to control insects), Herbicides (to control unwanted weeds), Fungicides (to control mildew, mold and fungal diseases to plant).

- There are many ways of extraction for making these products from the Natural Crops. Some of these are Steam Distillation Process, Supercritical Carbon Di Oxide Extraction Process, Cold Press Extraction Process in which there are no harmful chemicals are used for extracting the products from Nature like Seeds, Tree, Leaves, Roots, etc.

2.3 Why Natural Farming?

- Due to increase in the synthetic products in the market there are many problems occurring to Health as well as environment. To protect these Natural Farming is required
- Natural Farming is always sustainable as compared to Synthetic Produce
- We love Nature and hence Natural Farming

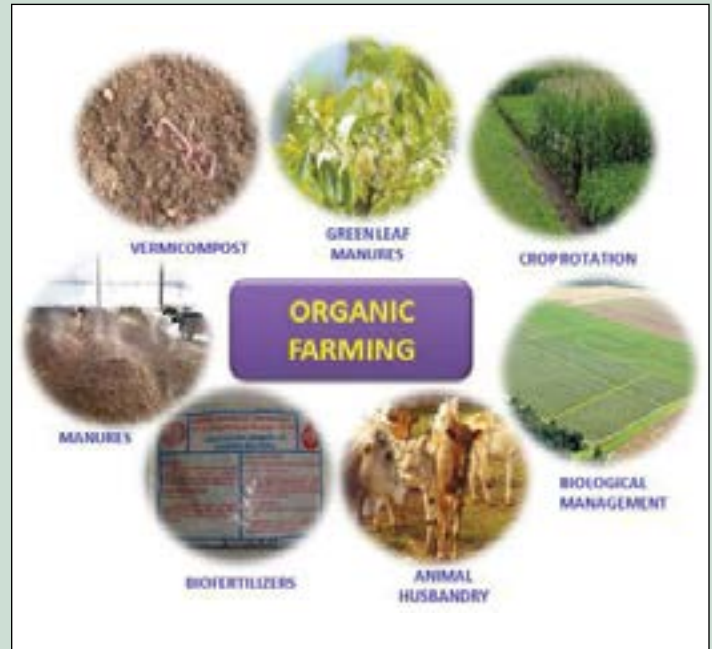
3. Organic Farming:

3.1 What is Organic?

Organic is a term used to safeguard our environment and also the health. All products that are coming from the Nature and cultivated / grown without use of any chemicals/pesticides/insecticides/herbicides is known as Organic

3.2 How Organic Products are made?

It is a method of farming system which primarily aimed at cultivating the land and raising crops in such a way, as to keep



the soil alive and in good health by use of organic wastes (crop, animal and farm wastes, aquatic wastes) and other biological materials along with beneficial microbes (biofertilizers) to release nutrients to crops for increased sustainable production in an eco friendly pollution free environment. The Soil is made rich with nutrients - NPK using Organic means, without use of any chemicals. In India, we make Organic Vermicompost' that is rich in NPK using Cow Dung. These Cow dung is fed with Red Earthworms and is allowed for fermentation for many days in a controlled temperature to make the Organic Vermicompost that is then used as an Organic Fertilizer to feed our Organic Farms and Fields. In order to present any pests/insects, etc. to attack crops, the Organic Herbal Sprays are used.

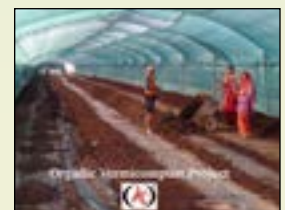
Organic Source of N in NPK Blends:

- Manure
- Compost
- Blood Meal
- Feather Meal



Organic Source of P in NPK Blends:

- Manure
- Compost
- Biosolids
- Blood Meal
- Bone Meal



Organic Source of K in NPK Blends:

- Manure
- Compost
- Wood Ash

The USDA definition as of April 1995 is:

Organic agriculture is an ecological production management system that promotes and enhances biodiversity, biological cycles and soil biological activity. It is based on minimal use of off-farm inputs and on management practices that restore, maintain and enhance ecological harmony.

3.3 Why Organic Farming?

- Concern over declining vitality of soils, plants, animals and humans
- Damage to ecosystems
- Alternative approaches to harmonize and attain balance with ecological processes
- Market opportunities

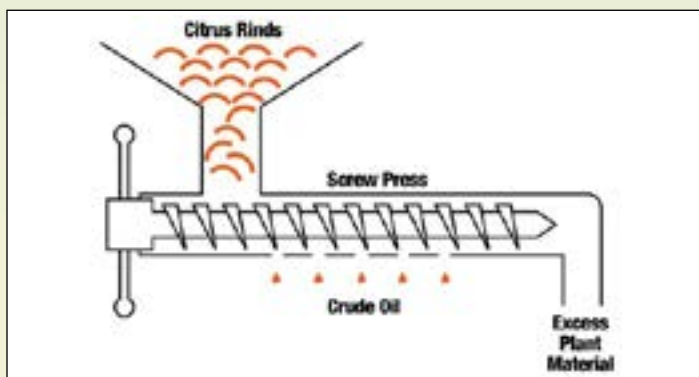
4. How Conventional/Natural Essential Oils Produced?

There are many different ways to extract natural essential oils and they are listed below:

- Expressed Oils (Cold Pressing)
- Steam Distillation
- Hydro Distillation
- Carbon Dioxide Extraction

4.1 Expressed Oils (Cold Pressing)

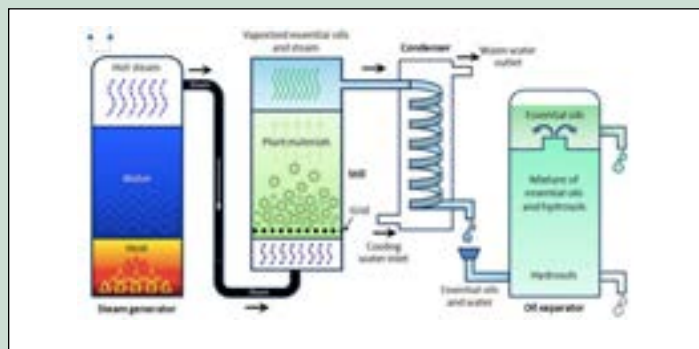
When oils are taken from the rind of fruits they are called "expressed oils". This method is cold and does not involve any



solvents or heat of any kind. Most of the citrus essential oils are extracted in this manner including grapefruit, lemon, lime and orange essential oils.

4.2 Steam Distillation

When steam distillation is used in the manufacture and extraction of essential oils, the botanical material is placed in a still and steam is forced over the material.



The hot steam helps to release the aromatic molecules from the plant material since the steam forces open the pockets in which the oils are kept in the plant material. The molecules of these volatile oils then escape from the plant material and evaporate into the steam. The temperature of the steam needs to be carefully controlled - just enough to force the plant material to let go of the essential oil, yet not too hot as to burn the plant material or the essential oil. The steam which then contains the essential oil is passed through a cooling system to condense the steam, which form a liquid from which the essential oil and water is then separated.

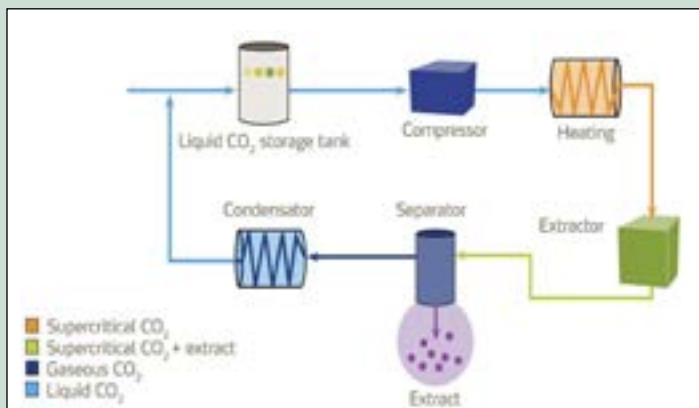
The steam is produced at greater pressure than the atmosphere and therefore boils at above 100 degrees Celsius that facilitates the removal of the essential oil from the plant material at a faster rate and in so doing prevents damage to the oil.

4.3 Hydro Distillation

In the manufacture of essential oils using the method of water distillation, the botanic material is completely immersed in water and the still is brought to the boil. This method protects the oils so extracted to a certain degree since the surrounding water acts as a barrier to prevent it from overheating. When the condensed material cools down, the water and essential oil is separated and the oil decanted to be used as essential oil. The water that is so separated in this process is also used and is marketed as "floral waters" (also called hydrosol or sweet water) - such as rosewater, lavender water and orange

water. Water distillation can be done at reduced pressure (under vacuum) to reduce the temperature to less than 100 degrees, which is beneficial in protecting the botanical material, as well as the essential oils.

4.4 Supercritical CO2 Extraction

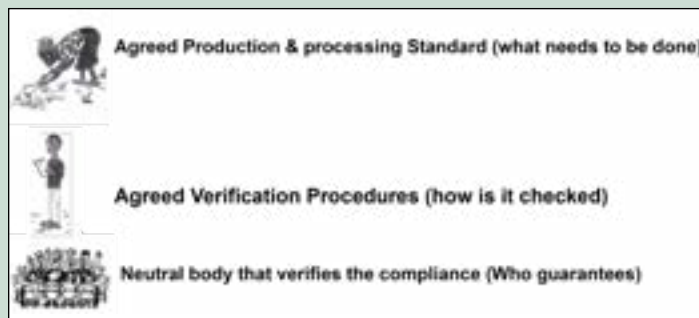


Carbon dioxide is pressurized to become liquid that means it is now supercritical and it is then pumped into a chamber filled with plant matter. CO2 functions as a solvent on the natural plant matter, pulling the oils and other substances such as pigment and resin from the plant matter. The essential oil content then dissolves into the liquid CO2. The CO2 is then brought back to natural pressure and evaporates back into its gaseous state, while what is left is the resulting essential oil.

Thus, the difference between traditional distillation and supercritical extraction is that instead of heated water or steam, CO2 is used as a solvent in the latter method. In steam distillation, the molecular composition of both the plant matter and the essential oil are changed due to the temperature applied. On the other hand, a CO2 extract is closer in chemical composition to the original plant from which it is derived, as it contains a wider range of the plant's constituents.

5. How Organic Essential Oils produced?

Organic essential oils also produced by the same method as described from chapter 4.1 to 4.4 using the Organic Farm



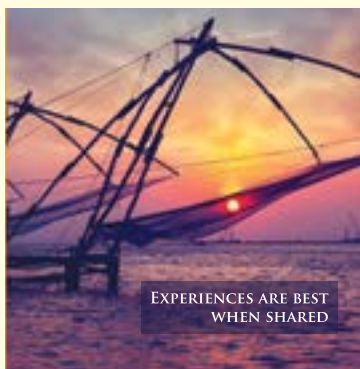
produced herbs. But in order to produce an Organic Essential Oils, there should be a proper ICS (Internal Control System) made in order to check the traceability of each and every essential oil. This ICS is authenticated and verified by the professional team of Organic certifiers before the extraction methods for essential oil is done. There are certain principals for Organic Certification:

Certifying body takes all the above measures so that there is a proper implementation of the Organic protocols made by the Organic Associations of the World and consumer gets the product for which they are paying for.

About Author



Gaurav Mittal is running his own group of Companies. He is Managing Director of **Aromatic & Allied Chemicals** (established in 1983) in India involved in Manufacturing of Natural Essential Oils, Mint Oils, USDA Organic Essential Oils, & FMCG products (LA MONK Beard Oil & Beard Balm). He is Vice President and Perfumer of **L'Soul Fragrances** (established in 2013) involved in Manufacturing of Perfumes / Fragrances. He is a Chemical Engineer and ISIPCA Graduate from France with professional experience of working with IFF and Givaudan worldwide.



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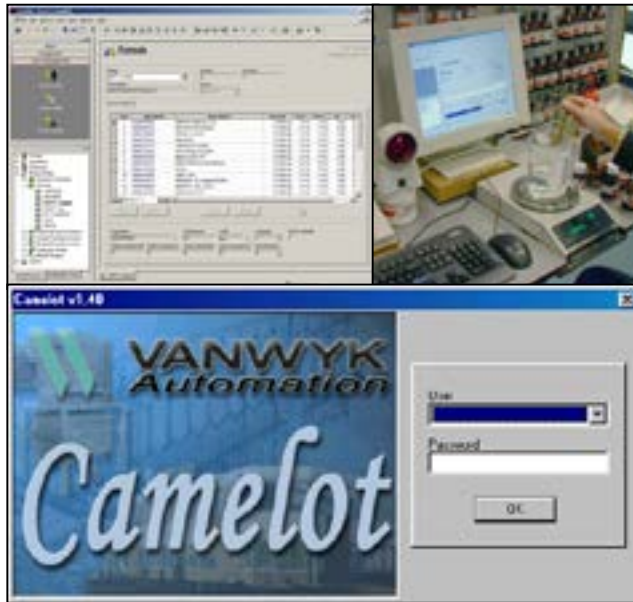
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FROM THE ARCHIVES

Aromagraphia II

B. H. Kingston
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Editor's Note

While life goes on the old classic cannot be forgotten because they have left a mark on our industry. The series article "Aromagraphia" appeared in the FAFAI Journal issue of 1982 and 1983. The following article is second in the series. The remaining part will be published in coming issues.

Rishabh Kothari -

Editor

Nearly a 100 years have elapsed since Tiemann & Kruger first synthesized ionone from citral during their investigation of the chemistry of the aromatic oil of violet flowers(1). Although they patented their invention ^{(2),(3)}, they probably did not fully appreciate at the time the extent to which this discovery would affect the subsequent development of perfumery. Today there is scarcely a perfume which does not contain at least one of the ionones or their brothers, the methyl ionones. They are found in perfume products ranging from the most expensive Arpege-type couturier extraits on the one hand to cheap household cleaners or detergents on the other. Indeed, they are so commonplace that perhaps we do not fully appreciate their value, especially in the pure isomeric form.

Let us therefore re-look at these perfumery chemicals as individuals and compare them with some of the exciting new members of the family which have appeared on the market during the past decade or so. As single materials, they are best odour evaluated in 1% alcoholic solutions to reduce the effect of their well known anosmic behavior.

For convenience we may, perhaps, consider them as 3 distinct groups. The first could be described as "iso-ionones" being derived from iso-cyclocitral, the second group originating from cyclocitral include the true ionones, and finally the new "damascones" form the third group.

The only common commercial example of this group, shown below, is 4-(3,5,6-trimethyl-3-cyclohexen-1-yl)-3-buten-2-one. This material, which apparently has no scientifically accepted trivial name, exists in two forms shown below, the asymmetrical structure predominating. It may be made in the same way as ionone by using iso-cyclocitral in place of cyclocitral.

While maintaining the characteristic violet flower – orris odour which typifies the true ionones, it lacks diffusion of

the latter. This power and diffusivity, to which we shall refer again, seems to be identified in those chemicals with a gem-dimethyl nuclear substituent. It is also noticeable to some extent in tertiary alkyl substituted ring structures.

Many commercial specialities contain mixtures of the alpha and beta isomers with traces of gamma ionone producing what is often described as a "velvety" violet note. Unfortunately, the olfactory values of the pure isomers have received less attention than they deserve and indeed some perfumers may be unaware of their full odour potential.

Alpha-Ionone

When pure, this beautiful aromatic has a very delicate soft floral nuance. It is suggestive of certain cultivated rose hybrids and indeed, when subtly used, gives lift and natural freshness to good rose perfumes.

Although having a close similarity of fragrance to pure **alpha-ionone**, it lacks the rooky orris character of the latter. When pure, the two chemicals are quite distinct, alpha-ionone, in my opinion, being the more flowery of the two. It is primarily used to best effect in cream and lotion perfumes, but in good superfatted soap stock its fragrant diffusion is still unmistakable.

Its occurrence in natural fruit oils suggests general flavour application, especially in raspberry and allied berry fruits up to, say 5%. For my part I prefer the beta isomer q.v.

Beta-Ionone

Being less stable than the alpha compound, beta-ionone is more difficult to obtain in the pure form. Consequently many perfumers and flavourists are more familiar with the harsher commercial products containing ionene and other terpene

impurities. In fact, when pure and in dilution, beta-ionone has a delicious warmfullbodied fruity character suggestive of cooked raspberries and hybrid rose. It can be used with remarkable effect in rose-type florals, freesia and similar fragrances at dosages between 0.5 and 2.5%.

While the value of pure beta-ionone has been recognized by flavourists for decades, it is certainly worth comparing its novel odour effects in perfume formulation as a replacement for the alpha isomer. Its reported wider distribution in nature in such fruits as melon and passion fruit suggest applications in the more exotic perfumes.

Methyl Ionones

Contrary to the straight ionones, the methyl ionones are not nature identical, but this does not detract from their wide application in both perfumes and flavours.

Apart from alpha-ionone, which has already been discussed, the two most useful isomers (of a possible six) are beta-normal methyl ionone and alpha-isomethyl ionone. A careful odour appraisal will show that the increased weight of the side chain gives more depth and volume of odour, while maintaining the same characteristics of the parent chemicals. Greater branching appears to confer an increased florality accompanied by a rich woodiness, typified by the most popular "alpha-isomethyl ionone" of which we are all familiar.

Beta-Normal Methyl Ionone

Less attention appears to have been taken of this interesting material because of the commercial difficulty in obtaining it free its other isomers. It is generally only available in beta rich mixtures. Nevertheless, its full floral-fruity character and strength is unmistakable making it ideal in rose, berry fruit compositions. Its potential is certainly worth exploring, even in good toilet soap perfumes. Thus, in light florals, it penetrates the restrictive fattiness of the product base to give an unusual long lasting fragrance.

The extra methyl group also appears to confer greater thermal stability in comparison with the beta-ionone, this is reflected in its better performance in sugar boiling flavours.

Higher homologues

If we go a step further up the series to the ethyl ionones, impact and diffusivity are reduced. The odour becomes much less floral and slightly fatty, losing the sparkle of the lower members of the series.

Allyl ionone, which is slightly more interesting and appears under several trade names, has an unusual persistent odour

which can best be described as sweet, woody, green and slightly fruity. It is usually employed in perfumes to give back-up to pineapple notes, by relying on its persistence to give strength and body to the more volatile caproates. This association with pineapple can sometimes be misleading and better use could be made of the other fragrance facets of allyl ionone. By exploiting its soft green character, allyl ionone will combine quite well with, say, the rose alcohols or even benzyl salicylate to give original light floral effects.

Damascones

These remarkable structures were discovered by Max Stoll and co-workers in his researches into the chemical constituents of *Rosa damascena* Mill in the late 60's and in 1970' he described their synthesis. Chemically they are structurally isomeric with the ionones, except that the double bond-carbonyl osmophoric groups in the side chain are in different positions. By so doing, the strength and diffusivity of the two ionones has been maintained, but the general character has changed to be come less flowery and more fruity.

To me damascones are, when smelled alone, much more camphoraceous, sharper and not so attractive as their ionone counterparts. This is especially so in the case of the alpha-damascone which is best described as having a winey-fruity, slightly apple, cyclohexanone-type smell. This apparent harshness is not evident when in use, the perfume being given considerable lift and diffusive power. Its value is therefore in its effect rather than in the intrinsic odour. For this reason, it is best used in creative formulations as a 10% solution.

Beta-damascone, on the other hand, is much softer, sweeter and more cooked-raspberry like more so indeed than beta ionone. However not more than 1% is generally needed in raspberry aroma and considerably less in floral, rose-type perfumes.

Structurally, alpha and beta-damascone can be regarded as dihydro-compounds of damascenone, the parent material found in Bulgarian rose oil at circa 0.05%. As far as we know they do not occur naturally.

Damascenone (or dehydro - beta - damascene) which reportedly occurs also in tobacco, tea, raspberry and Roman Camomile, is at once fruity and brandy-like. It is even been described as "musty". To me it is softer than beta-damascone, with a distinct "fermented" odour suggesting a use in spirituous perfumes or flavour aromas. The dry out is more reminiscent of apples - possibly cooked bramleys. Here again, diffusion is most important and application in 10% or even 1% solution is advisable to give the best original odour effects.

One or two chemically related materials have also begun to appear on the market. **Isodamascone** (trans-2,4,4-trimethyl-1-crotonyl-cyclohex-1/2-ene) is one example. While resembling beta-damascone in strength with none of the vestiges of camphoraceousness, it does not appear to have the same degree of diffusivity and lift as the true damascenes. This may be attributable to the remoteness of the gem-dimethyl group from the side chain.

The choice of use of these exciting new chemicals is a matter of personal preference and experimentation. But one thing is clear, they offer plenty of scope for innovating perfume and flavour creation. A word of caution, though – their strengths may be under estimated, so they should be used with discretion – at least in the initial experimental stages.

In conclusion, the ionone Family continues to provide new creative possibilities for both the perfumer and flavourist. It fulfils the principle property required on modern perfumes – namely strength. As well as exploring new avenues offered by the damascene group, we should not neglect the value of the less known purer forms of traditional ionones.

We have already emphasised the importance of strength and diffusivity in selecting perfume and flavour chemicals for different creative applications. Strength not only satisfies the consumer expectations of sensory appreciation in the final product, but it also aids the creative perfumer / flavourist by enabling him to make best use of available raw materials at optimum economic advantage. In other words, it is the odour value in terms of strength which is paramount when considering value for-money ingredients.

The indispensable ionone family (5) is one of the best example of this. A little ionone goes a long way. One can generally find a small amount (say 1% or less) of an ionone in the majority of perfumes and fruit flavour complexes. Another group is the cyclopentanones, which we discussed earlier (6). These compounds show certain remarkable odour similarities to those of the alkyl lactones, and it may therefore be of interest to examine the latter and other lactones in greater detail.

Alkyl lactones

It was during the first quarter of this century that these chemicals first made their commercial appearance and use in perfumes and flavours. Only two gained acceptance at that time, namely nonalactone (7) and undecalactone (8). As was often customary then, they were offered as specialities bearing names designed to confound the customer and possible competitor. For some strange reason they were called “aldehyde C18” (or “coconut aldehyde”) and “aldehyde C14” (or “peach aldehyde”) respectively.

These so-called “aldehydes” were slavishly used by subsequent generations of perfumers and flavourists, although the chemical literature of the last 50 years or so contained numerous references to other alkyl lactones. We now, at last, have available a wide selection of these valuable chemicals, so let us examine their innovative applications and compare them with the two old favourites mentioned above.

From the chemical structure view point it is more logical to regard them as substituted acid lactones, but for convenience we may use the traditional numerical names with Greek letter prefixes. The most well known are the butyrolactones (gamma-lactones); then come the substituted valerolactones (delta-lactones) and finally we will consider one example of the 7-membered ring lactones which we may call “Epsilon lactones”.

If we take the gamma lactones (C4-C12) the first thing we notice is the general similarity of the higher molecular weight members to some of the jasmin cyclopentanones mentioned above, in respect of a nutty-peach odour character. For example, if we compare 3-hexyl butyrolactone (gamma-decalactone) with 2-hexyl cyclopentanone, there is a close odour relationship between the two. The decalactone is slightly sweeter, fattier and more peachy than the corresponding cyclopentanone derivative, with added strength and body. This suggests an application in jasmin and related perfumes. Indeed, its sister homolog (undecalactone) has traditionally been used in jasmine-based sophisticated fragrances for many years, but very little attention has been paid to other members of this series.

Consider, therefore, the Table below which shows odour interpretations of this series. The nutty, slightly fatty character seems to be more noticeable in the lower members, possibly due to a greater influence of the osmophoric lactone ring.

Gamma-heptalactone (C7) has a basic tonka character with slight almondly overtones, suggesting uses giving a coumarin-like effect in a wide variety of compositions. Unfortunately it does not quite have the tenacity and intense hay-like character of coumarin itself, but this can be partially overcome by judicious blending.

The higher members of the series develop greater strength and fruitiness. **Gamma-dode-calactone**, in particular, shows a potential for complementing the traditional gamma-undecalactone to give the desirable velvety peach-skin odour of the natural fruit.

If we now look at the substituted valerolactones or delta lactones, we see two general changes : more odour strength with flavour persistence, and a greater nuttiness of odour

character with a buttery flavour, especially in those having an even number of carbon atoms. **Delta-undecalactone**, for example, is nuttier than the corresponding gamma isomer which can be put to good advantage in blends with the latter to give smoother and more effective natural fruity accords.

More striking is the coconut character of delta-decalactone which is softer and less fatty/chemical than the well known "coconut aldehyde". Coconut is very popular now in tropical suntan preparations and allied toiletries, so delta-decalactone has possibilities in this odour area. Furthermore, the latter has a very similar odour to jasmin lactone II (or "jasmalactone"), a closely related C10 valerolactone with a mono-unsaturated side chain, originally isolated from jasmin absolute (9). Traces of delta-decalactone can therefore also be effective in floral creations such as jasmin, tuberose and gardenia. Finally we should not forget the C9 delta-nonolactone which is distinctly coumarin/tonka- like.

Before leaving this group of chemicals, it is worth looking at one of the next larger ring alkyl lactones, namely **epsilon-octalactone**. This could best be described as having an odour of walnut with a suggestion of brazil nuts. It opens up possibilities of exploring further large ring lactones by bridging the gap between the C4-C6 ring lactones described above and the C15-C16 "macrocylic" lactones.

There is also scope for innovative variations and positioning of the side chain. Thus, a recent Japanese patent describes alkyl gamma and delta lactones, where R is a poly-unsaturated branched side chain, as having floral and fruity odours (10).

Odour Impression of the Alkyl Lactones

	Gamma	Delta	Epsilon
C4	Buttery (Weak)	_____	_____
C6	Tonka, Fatty	Buttery	_____
C7	Tonka, Almond, hay	Almond	_____
C8	Coconut, Tonka	Nut Coconut	Walnut, Brazil
C9	Coconut	Coconut Tonka	_____
C10	Nutty, Coconut, Peach	Coconut	_____
C11	Fatty Peach	Peachy, Nut	_____
C12	Fruity Peach	Nutty, Peach	_____

Macrocylic Lactones

This subject has been fully covered in recent decades by numerous publications under the heading of "macrocylic musks". Ever since the work of Kerschbaum and others in 1927 and 1928 on ambrettolide and exaltolide (11) (12) (13), these lactones have seen increasing importance in fine perfumery on account of their fixative and exalting properties

as well as their intrinsic animalic odours when used in high percentages.

Nevertheless it is worth reminding ourselves that these valuable ingredients are, chemically speaking, unsubstituted alkyl lactones with C16 and C15 rings. Their stability in soap and strength is comparable with the smaller ring lactones, thereby suiting them to blends with the latter.

Aromatic lactones

The first synthesis of coumarin III in 1868 by W H Perkin (14) heralded the beginning of the age of synthetic perfumery chemicals. Since that time, coumarine has become one of the most important ingredients used in perfumery and flavours.

Unfortunately, post war researches have shown it to have some undesirable physiological effects and therefore its use in "compounds" has recently been restricted.

Structurally coumarin could be regarded as a condensed unsaturated valerolactone (or delta-lactone), and indeed we find most of its simple derivatives have similar nutty odours and flavours to the alkyl lactones, although comparatively few have gained commercial importance. It is not the purpose of this article to dwell on the better known derivatives, but to draw attention to the lesser used materials. One of these, 4-methyl-7-ethoxy coumarin IV, has been used for many decades by flavourists under the name of "Maraniol, but it has surprisingly received very little attention from perfumers. It has an extremely powerful dry walnutty odour character with underlying sweet herbaceous honey-like notes. Unfortunately it is not as soluble as coumarin itself, but this is to some extent compensated by its considerable strength. Very small quantities can give natural fixative effects to light floral perfumes. Like the parent compound it is extremely stable in soap and detergent perfumes as well as toiletries, providing the pH is not too high. Used in combination with some of the delta-alkyl lactones discussed above, it can be very effective in giving hay and tobacco notes to men's perfumes and chypres.

Related to the coumarins are the **alkylidene phthalides** in which a substituted butyrolactone ring is condensed with the benzene nucleus. Of this group of chemicals available on the market, the most interesting is **3-propylidene phthalide**. This has a very powerful herbaceous, lovage odour, giving creative possibilities to both the flavourist and perfumer. Best used in 10% solution for perfumes, it gives strength and novelty to tobacco and oriental compositions. It will also combine well with mossy/herbal notes giving lift and strength. This is one of a relatively unexplored group of lactones which deserves more attention from the perfumery chemist.

Other condensed ring lactones

Several new non-aromatic condensed ring lactones have been introduced into perfumery in the past few years. Perhaps the most interesting are the substituted Tetralin Lactones. These materials, derived from hydroxy tetralin carboxylic acid, have strong civet/animalic associations allied to the indols, but without the harsh chemical notes of the latter or the propensity to discolouration. Extremely persistent and softer in character, they are easier to use without "sticking out" from the perfume blend. In the most readily available of this group are derived from 2,8,8-trimethyl tetralin, the lactone ring varying from 4 to 5 carbon atoms.

Resume

It can be seen that lactones in general produce an intriguing spectrum of odour types, associated on the whole with animalic, nutty and other non-floral odours. Their main virtue is strength, versatility of application and economy in use. There is enormous scope for the organic chemist to expand the range of lactone structures by even slight modifications of some of the chemicals herein described. The perfumer and flavourist also have more opportunity of making better use of some of the newer lactones now that they are making their appearance on the market.

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Fennel Oil Sweet	Spruce Needle Oil
Fennel Oil Vulgaris / Bitter*	*Swiss Stone Pine Oil
Helichrysum Oil*	*Thyme Oil Vulgaris
Hyssop Oil	Thyme Oil Wild
Juniper Berry Oil 2 x rect.*	Valerian Root Oil
Juniper Needle Oil	*Yarrow Oil Blue / Green

* Organic quality available on request

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CHENOPODIUM OIL

Wormseed oil which is also known as Chenopodium oil is an herb. Oil made from this herb is used as medicine. Authorities disagree on whether chenopodium oil is the oil of fresh, flowering, and fruiting parts of the plant or seed oil.



Despite serious safety concerns, people take chenopodium oil to kill roundworms and hookworms in the intestine.

Wormseed is an annual or perennial herb that grows up to a height of five feet and has a straight stem, which is slightly woody at the bottom and has a potent smell. The leaves of wormseed appear alternately on the erect stem and are roughly toothed and shaped like a lance. The herb produces thick spines of minute green-hued flowers during the period between August and November at the leaf axils. The wormseed fruit is perfectly enclosed in the calyx, obtusely angled, the seed smooth and shining, the embryo forming about three-quarters of a ring around the mealy albumen.

Some medications can increase sensitivity to sunlight. Chenopodium oil might also increase your sensitivity to sunlight. Taking chenopodium oil along with medications that increase sensitivity to sunlight could increase the chances of sunburn, blistering or rashes on areas of skin exposed to sunlight. Be sure to wear sunblock and protective clothing when spending time in the sun.

Synonyms:- American Wormseed oil, Chenopodiol, Chenoposan.

Biological source:- Chenopodium oil is volatile oil obtained by steam distillation from fresh flowering and fruiting plants (except roots) of CHENOPODIUM AMBROSIODES var anthelminticum Linn. It contains not less than 65% of ascaridole.

Botanical name:- Chenopodium ambrosioides

Family:- Chenopodiaceae.

Specific gravity:- 0.970 to 0.99

Rotation, between :- -1° and -6° .

Substitutes:- The plant chenopodium is very common in Central U.S.A. It is indigenous to Caribbean islands. It is extensively cultivated in Maryland, Mexico and Canada. In India, the plant Chenopodium is substituted by chenopodium ambrosioides Linn, and Chenopodium album linn. IT IS FOUND IN UTTAR PRADESH, TAMIL NADU, KARNATAKA AND WEST BENGAL.

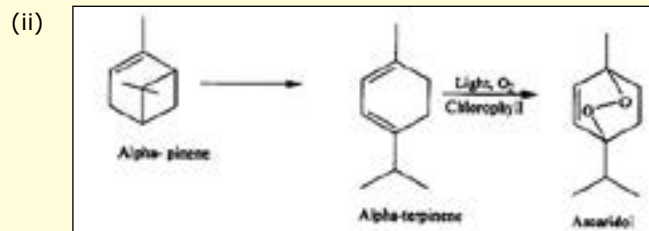
Description:-

- (i) Colour: Colourless to light yellow liquid.
- (ii) Odour: Unpleasant and characteristic.
- (iii) Taste: Bitter and burning.
- (iv) Solubility: Soluble in eight volume of alcohol (70%) and insoluble in water.



Chemical Constituents:-

- (i) The main chemical components are ascaridole, cymene(40.9%), limonene, (23.2%) terpinene and myrcene(6.2%).



STUDY OF AERIAL PARTS (LEAVES, FLOWERS, AND STEM) FOR ESSENTIAL OIL BY GC AND GC/MS ANALYSIS YIELDED 14 COMPONENTS REPRESENTING 98.8% OF THE TOTAL OIL.

Other names is Chenopodium Oil :- Chenopodium anthelminticum, Epazote, Épazote, Fausse Ambroisie, Huile

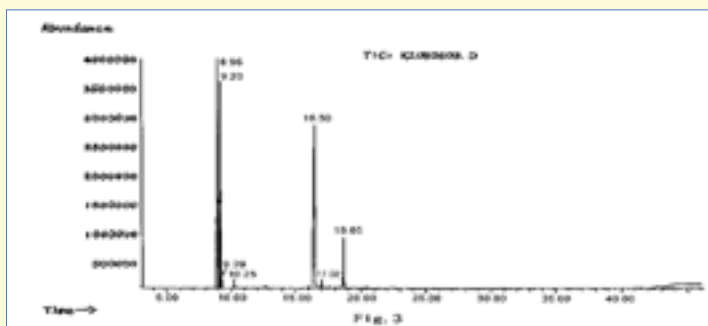
d'Ansérine, Huile de Chénopode, Jesuit Tea.

Chenopodium Oil work:- Chenopodium oil appears to work by paralyzing worms in the intestine.

Chemical test:- Heat one ml chenopodium oil in a test tube with a piece of porcelain. A golden yellow liquid is produced.

A tea made from the leaves has been used to provide a cleansing effect and to help expel harmful organisms from the body. The seeds have also been used to help the body purge predatory organisms.

(CAUTION: PERFORM THE TEST VERY CAREFULLY A' EXPLODES WHEN HEATED).



RESEARCH BY AMERICAN JOURNAL OF ESSENTIAL OILS & NATURAL PRODUCTS CHEMICAL COMPOSITION AND BIOLOGICAL ACTIVITY OF ESSENTIAL OIL OF CHENOPODIUM AMBROSIODES FROM YEMEN

Ali G Al-kaf, Rebecca A Crouch, Annika Denkert, Andrea Porzel, Othman SS Al-Hawshabi, Nasser A Awadh Ali*, William N Setzer, Ludger Wessjohann.

Abstract:-The chemical composition of the hydrodistilled leaf essential oil from *Chenopodium ambrosioides* L. growing wild in Yemen was determined by GC-MS analysis, and its cytotoxic, and general antioxidant potential were evaluated. Major compounds of *C. ambrosioides* oil were ascaridole (54.2%), isoascaridole (27.7%) and p-cymene (8.1%). At concentrations of 50 and 25 $\mu\text{g}/\text{mL}$, the essential oil showed cytotoxic activity against HT29 (human colon adenocarcinoma cells), with growth inhibition of 100 and 56% (± 3). The free radical scavenging ability of the oil was assessed by the DPPH assay to show antiradical activity with IC_{50} of 10.4 $\mu\text{g}/\text{mL}$. TLC-bioautographic assay was used to identify the acetylcholinesterase inhibitory effect, and ascaridole was isolated and characterized (ESIMS, ^1H NMR, ^{13}C NMR and HMBC) as the responsible constituent for anticholinesterase activity. Chemical composition and biological activity of essential oil of *Chenopodium ambrosioides* from Yemen.

Wormseed and Fungus:- Research has repeatedly shown that wormseed is effective against fungus. Wormseed contains a compound called ascaridole, which is believed to be the most toxic to fungus. At least two separate studies performed at India's Banaras Hindu University evaluated botanical essential oils for activity against funguses that cause skin infections.

Uses:

- Wormseed oil is used for rheumatism of the joints and treats skin conditions like eczema.
- It is used in medicines formulated to rid children of roundworms, tapeworms, and other parasites any parasite of the intestinal tract, though it is not as effective against tapeworms.
- Wormseed oil has been recommended for the treatment of malaria, chorea, hysteria, and other nervous diseases.
- It is also used to treat nervousness, anxiety, and depression.
- It is a valuable anthelmintic for round worms (*Ascaris*) especially.
- It is used for expelling the worms like hook worms and dwarf tape worms. It is not active against large tape worms
- It is used against intestinal amoebae.
- It is used in veterinary practice also.
- Very valuable anthelmintic, especially round- worm (*Ascaris*).
- To expel hookworm and dwarf tapeworms but no action on tapeworms.
- Oil is used against intestinal amoebae and in veterinary practice.
- Contraindicated in pregnancy and in patients with impaired kidney or liver.

Dosing considerations for *Chenopodium* Oil:- The appropriate dose of chenopodium oil depends on several factors such as the user's age, health, and several other conditions. At this time there is not enough scientific information to determine an appropriate range of doses for chenopodium oil. Keep in mind that natural products are not always necessarily safe

and dosages can be important. Be sure to follow relevant directions on product labels and consult your pharmacist or physician or other healthcare professional before using.



Properties:-

- (i) Analgesic, anti-asthmatic, anti-fungal, carminative, diuretic, emmenagogue, stomachic, sudorific, vermifuge. Bruised leaves emit a somewhat foetid odor.
- (ii) Fruit well known for its vermifuge properties.
- (iii) The characteristic smell of the plant is attributed to ascaridol.

Precautions:- Wormseed oil should not be used in aromatherapy and the oil may explode when heated or treated with acids.

REFERENCES:-

- ARCTANDER, STEFFEN FROM – (PERFUME AND FLAVOUR MATERIALS OF NATURAL ORIGIN) BRAIN M. LAWREN FROM – (ESSENTIAL OILS) CHOPRA,
- R.N, NAYAR S.L., GLOSSARY OF INDIAN MEDICINAL PLANTS (COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH), (WEALTH OF INDIA), DR. K.M. NADKARNI'S (INDIAN MATERIA MEDICA)
- W.A.POUCHER FROM –(POUCHER'S PERFUMES, COSMETICS AND SOAPS)
- S.N.MAHINDRU FROM – (INDIAN PLANT PERFUMES)
- AND PERSONAL DISCUSSION WITH PROFESSOR DR. SUDHA JAIN, DR. SHAKTI SHUKLA (P.D- FFDC KANNUJ) & RAKESH LAB ETC.



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JANUARY						
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National

August / September	31 st Aug - 2 nd Sept, 2018	Event : INDIA FOODX 2018 - International Exhibition on Food & Beverage Products Location : BIEC, Bangalore Contact : E-mail : indiafoodex@gmail.com ; Website : www.indiafoodex.com
September	10-11, 2018	Event : Cosmoprof India - An International Beauty Trade Show Location : Sahara Star Hotel, Mumbai Contact : UBM India Pvt. Ltd. ; Tel : 91-9619463363 ; E-mail : ritesh.purohit@ubm.com ;
September	27-29, 2018	Event : Anutec Ingriends India Location : Bombay Convention & Exhibition Centre, Goregaon, Mumbai Contact : Mr. Milind Dixit ; Tel : 91-22-28715200 ; E-mail : m-dixit@koelnmesse-india.com ;
October	1-2, 2018	Event : Cosmetic Ingredients & Packaging India (C.I.P.I) Location : Bombay Convention and Exhibition Centre, Goregaon, Mumbai Contact : 91-22-61713241 E-mail : Hemant.rajput@ideas-exchange.in
October	4-6, 2018	Event : Indiacem 2018 Location : Bombay Exhibition Centre, Goregaon, Mumbai Contact : E-mail : nachiket.basole@ficci.com Website : www.indiacem.in
October	11-12, 2018	Event : 2 nd Indian Surfactants Conference Location : Mumbai Contact : E-mail : events.registration@icis.com Website : www.icisevents.com
January	18-20, 2018	Event : 24 th FAFAI Seminar on "India - The New Growth Story" Location : Lulu Bolgatty International Convention Centre Contact : FAFAI ; Tel : 91-22-22090184 / 22076075 E-mail : fafailaya@gmail.com Website : www.fafai.org

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International

September	9-13, 2018	Event : IFEAT Conference Location : Columbia, South America Contact : Web : www.ifeat.org
September	18-21, 2018	Event : Bioflavour Conference Location : Frankfurt, Germany Contact : Web : www.dechema.de
October	3-5, 2018	Event : Food Ingredients Asia Location : Jakarta International Expo, Indonesia Contact : Web : www.figlobal.com/asia/indonesia
October	14-16, 2018	Event : Beautyworld Middle East Location : Saudi Arabia Contact : 91-22-61445945 Website : www.beautyworldksa.com
October	26-28, 2018	Event : International Fragrant Industry Expo Location : Haikou, Hainan, China Contact : E-mail : 2982960015@qq.com
October	28-31, 2018	Event : Fabric and Home Care World Conference on "Navigating Global Transformation" – Are you on Course" Location : Florida, USA Contact : conniETT@aocs.org Website : fabrichomecare.aocs.org
November	13-15, 2018	Event : Flavorcon Location : Atlantic City, New Jersey, USA Contact : Website : www.flavorcon.com
November	21-23, 2018	Event : Anufood China Location : China National Convention Centre, Beijing, China Contact : E-mail : anufoodchina@koelnmesse.cn Website : www.anufoodchina.com

OCTOBER						
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α - Humulene	Ethyl Benzoate	L-rose oxide	Orange Oil (10 Fold & 20 Fold)
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 Toluate	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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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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MARKET INDICATORS

SR. NO.	NAME OF THE ITEM	PRICES (INR)		
		(PAST) MARCH 2017	(CURRENT) AUGUST 2018	FUTURE TREND
1	A.C.H.P.	875	900	≈
2	ALDEHYDE C - 10	500	475	≈
3	ALDEHYDE C - 11	1200	1400	≈
4	ALDEHYDE C - 12 LAURIC	500	460	≈
5	ALDEHYDE C - 12 MNA	1250	1000	≈
6	ALDEHYDE C - 18	950	1250	≈
7	ALDEHYDE C - 8	650	600	≈
8	ALDEHYDE C - 9	1500	1250	≈
9	ALLYL AMYL GLYCOLATE	650	650	≈
10	ALLYL CAPROATE	500	600	≈
11	ALPHA DAMASCONE	7000	7500	≈
12	AMBROXAN / AMBERMOR -EX (AROMOR)	38000	32000	≈
13	AMYRIS OIL	6700	8700	≈
14	ANETHOL SYNTHETIC	850	750	≈
15	AQUAMOR/ CALONE / WATER MELON KETONE	11000	13500	≈
16	ARMOISE OIL	15200	11000	≈
17	BACDANOL	1200	1500	↓
18	BALSAM PERU	1700/2700	1800/2900	↑
19	BALSAM TOLU	2700	2600	≈
20	BENZYL SALICYLATE	265	280	≈
21	BERGAMOT OIL	21500	13500	≈
22	BETA DAMASCONE	15000	15000	≈
23	BLUE CHAMMOMILE OIL	130000	120000	≈
24	BOISAMBRENE FORTE / AMBERWOOD F	1700	1500	≈
25	BRAHMANOL - F	5000	5400	≈
26	BUCCOXIME	16000	21000	≈
27	BUCHU OIL BETULINA	26000	35000	↑
28	C.P.D/CYCLOPENDECANLIDE	2400	3200	≈
29	CASSIA OIL	2800	3000	≈
30	CEDAR LEAF OIL (THUJA OIL)	11000	14000	≈
31	CEDARWOOD OIL (TEXAS)	1650	2300	≈
32	CEDARWOOD OIL HIMALYAN RECTIFIED	675	825	↑
33	CEDARWOOD OIL VIRGINIA	2400	2500	↑
34	CEDRYL ACETATE LIQUID	925	925	≈
35	CINNAMIC ALCOHOL	550	550	≈
36	CINNAMIC ALDEHYDE	280	240	≈
37	CINNAMON BARK OIL	17000	21000	≈
38	CINNAMON LEAF OIL	1550	2100	≈
39	CIS 3 HEXENOL	2200	2800	≈

SR. NO.	NAME OF THE ITEM	PRICES (INR)		
		(PAST) MARCH 2017	(CURRENT) AUGUST 2018	FUTURE TREND
40	CIS 3 HEXENYL ACETATE	2300	2900	≈
41	CIS 3 HEXENYL SALICYLATE	1900	1900	≈
42	CIS JASMONE	11000	10000	≈
43	CITRONELLA OIL	1200	1600	≈
44	CITRONELLOL	800	1200	↓
45	CLARY SAGE OIL	17500	17500	≈
46	CLOVE OIL REC 85%	1200	1650	↑
47	CLOVE TERPENES	160	250	↑
48	COGNAC OIL GREEN	45000	55000	≈
49	CORIANDER LEAF OIL	14000	6500	↑
50	CORIANDER SEED OIL	9300	8500	≈
51	CYCLAMEN ALDEHYDE	1200	1100	≈
52	CYCLOGALBANATE/ ISO ANANATE	1500	1000	≈
53	CYRESS OIL SPANISH	6500	4500	≈
54	D-LIMONENE (ORANGE TERPENES)	850	750	↑
55	DAMACENONE	60000	55000	≈
56	DIHYDROMYRCENOL	400	2500	↓
57	DIMETOL	1500	1900	↓
58	DMBCA	700	800	≈
59	ETHYL 2 METHYL BUTYRATE	650	700	≈
60	ETHYL MALTOL	1300	1600	↓
61	ETHYL VANILLIN CHINA	1150	1150	≈
62	EUCALYPTUS OIL 60 %	1250	1800	↑
63	EUCALYPTUS OIL 80 %	1600	2350	↑
64	EVERNYL	6000	5800	↓
65	FIR NEEDLE OIL SIBERIAN	4200	4200	≈
66	GALAXOLIDE - DEP 50%	470	470	↑
67	GALBANUM OIL	20000	29500	≈
68	GERANIOL	900	1350	↓
69	GERANIUM OIL CHINESE	19500	22000	↑
70	GERANIUM OIL EGYPTIAN	7500	7800	≈
71	GUAIACWOOD ACETATE	3000	3600	≈
72	GUAIACWOOD OIL	2100	2000	≈
73	HEDIONE / MDJ	650	825	↓
74	HELITROPIN	1900	3000	↑
75	HERCOLYN - D / FORALYN	600	600	↑
76	HEXYL CINAMIC ALDEHYDE	500	425	↑
77	HEXYL SALICYLATE	350	425	↑
78	HYDROXY CITRONELLOL	2300	3500	≈
79	INDOLE	1300	1400	≈
80	ISO DAMASCONE	16000	12000	≈
81	ISO E SUPER	475	1200	≈
82	ISO EUGENOL	1700	2400	≈
83	ITD ALCOHOL / OXO C13	500	500	≈
84	LABDANUM ABSOLUTE	6000	7500	↑

SR. NO.	NAME OF THE ITEM	PRICES (INR)		
		(PAST) MARCH 2017	(CURRENT) AUGUST 2018	FUTURE TREND
85	LAVANDIN OIL GROSSO	3300	3600	↑
86	LAVENDER OIL BULGARIAN	11000	14000	↑
87	LAVENDIN OIL ABRALIS	3200	4500	↑
88	LEMON OIL C.P.	5500	4200	≈
89	LIME OIL CP	6500	4500	≈
90	LIME OIL DISTILLED MEXICAN	4500	5500	≈
91	LINALOOL	600	1200	≈
92	LINALYL ACETATE	800	1300	≈
93	LYRAL/ KOVYRAL	1080	3000	≈
94	LYSMERAL	650	1300	↑
95	MALTOL	1450	2500	≈
96	MANDARINE OIL GREEN	10000	11000	≈
97	METHYL BETA NAPHYL KETONE(ORANGE CR)	900	750	≈
98	MUSK AMBRETTE	1300	1600	↑
99	MUSK KETONE	1550	2200	↑
100	MUSK T	800	800	≈
101	MUSK XYLOL	550	550	≈
102	MYSOLENE SANDAL	4800	4800	≈
103	NEROLI OIL NATURAL	250000	250000	≈
104	OAKMOSS ABSOLUTE	28500	24500	≈
105	ORANGE OIL COLDPRESSED BRAZIL	1075	825	↑
106	OREGANUM OIL	8500	9000	≈
107	PADMA	850	1100	≈
108	PATCHOULI OIL	2700	3700	↑
109	PETITGRAIN OIL	5500	5800	≈
110	PHENYL ACETALDEHYDE 85%	1000/1800	1000	≈
111	PHENYL ETHYL ALCOHOL	350	300	≈
112	PIMENTO BERRY	13500	14500	≈
113	RASPBERRY KETONE	1750	1400	≈
114	RESINOID LABDANUM	1700	1600	≈
115	ROMAN CHAMMOMILE OIL	120000	98000	≈
116	ROSE OXIDE INACTIVE	2550	3500	≈
117	ROSEMARY OIL SPANISH	6500	6500	≈
118	SANDENOL CHINA / ICCH	425	650	↑
119	TONALIDE PFW	1650	2300	↓
120	VANILLIN CHINA	825	850	≈
121	VERTOFIX COEUR CHINA	2500	1600	≈
122	VERTOFIX METHYL CEDRYL KETONE-CHINA	1550	1300	≈
123	VETIVERYL ACETATE	32000	42000	≈
124	VETIVER OIL HAITI	27000	34000	≈

Intrepretation of symbols;

Possible price increase ↑

Possible price decrease ↓

Price Stable ≈

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- Clove Oil (Indonesia)
- Elemi Oil (France)
- Eucalyptus Oil 60% (China)
- Eucalyptus Oil 80% (China)
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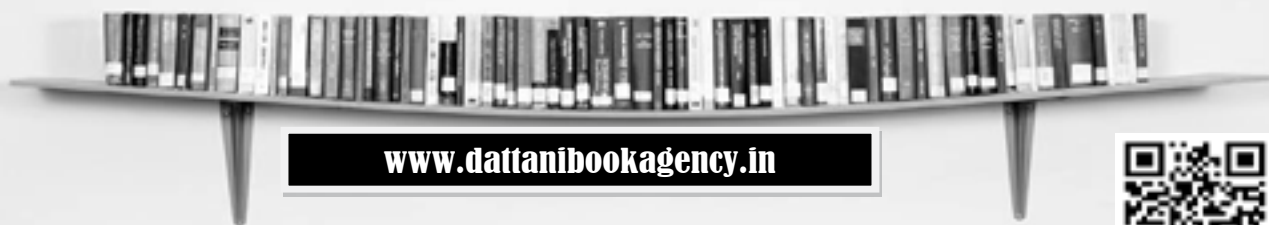
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