

ISSN: 0972-2114

THE FAFAI JOURNAL

VOL: XXII No.4 OCTOBER 2020 - DECEMBER 2021



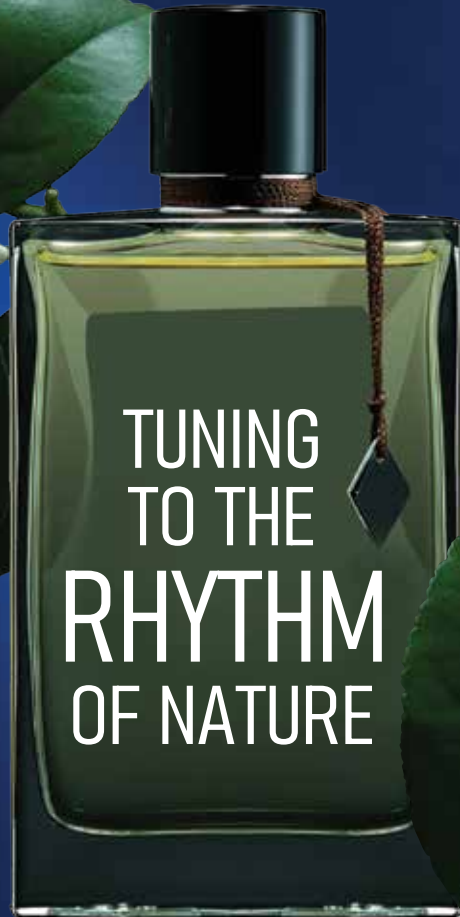
FRAGRANCES
FLAVOURS

Association of India





Ultra International Limited
Fragrances, Flavours & Essential Oils



TUNING
TO THE
RHYTHM
OF NATURE

FRAGRANCES | FLAVOURS | ESSENTIAL OILS



www.ultrainternational.com |  ultra@ultrainternational.com |  +91-120-4388500

LYRAL
TRIMOFIX
CASHMERAN
AMBER XTREME
SANJINOL
BACDANOL
ISO E SUPER
GALAXOLIDE
PRECYCLOMONE B
VERAMOSS
TRISAMBER
AMBERMORE EX
AMBRINOL 95
GALBASCON
TIMBERSILK
MUSCEMOR
PHENOXANAL

JESSEMAL
HEXALON
AQUAFLOA
CYCLEMAX
FLEURAMONE
JASMAL
PHENAFLEUR
PEOMOSA
KOAVONE
TOBACOROL
LIFFAROME
VIOLIFF
VERTOFIX COEUR
CEDRAMBER
TRISAMBER
KARMAWOOD
FLORALOZONE

AND MANY MORE

iff

AAACIPL

info@aacipl.com

MANAN GANDHI 9619140985 · NIRAV MEHTA 9845015050 · YK MANJUNATH
9845042420 · SOPAN MORE 9819835142 · RIDDHI JATHAR 02224198807 · SATISH
PATIL 7045606461 · SACHIN BHANDARE 9321608171



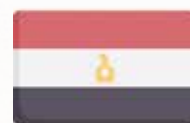
ORIGINS



SOUTH KOREA



INDONESIA



EGYPT



BRAZIL



HAITI



PARAGUAY

AACIPL

THE FAFAI JOURNAL

VOL. XXII NO. 4, October 2020 - December 2021

DEDICATED TO EXCELLENCE IN FRAGRANCES & FLAVOURS

EDITORIAL BOARD

Mr. Rishabh C. Kothari

Hon. Editor

Mr. Kamlesh Hiralal Shah

Printer & Publisher

Mr. Ashish Jhunjunwalla

Mr. Ankit Agrawal

Mr. Geemon Korah

Dr. Geethanjali Ranade

Mr. Krish Hirani

Mr. Shakti Vinay Shukla

Dr. Sitaram Dixit

CONTENTS

PAGE NO.

First Person - President's Message	3
FAFAI News	25
Indiascope	31
Worldview	41
What is New	
- Dhruva Devvanshi	65
Are Essential Oils Effective against Covid 19	
- Dr. Sitaram Dixit.....	81
Understanding and Appreciating Fragrance - Shalimar	
- Dr. Geethanjali Ranade	86
Translation studies for utilizing aromatic essential oils	
For developing eco-friendly floor disinfectant formulation	
- Dr. Ramesh kumar Srivastava.....	89
Exploring Essential Oils potential complimentary therapy	
against the ravaging Coronavirus (Sars-Cov-2)	
- Uday Naik.....	97
Essential Oil Review - Jasmine Oil	
Yogesh Dubey	113
Kalpaka Vruksha, A God's Gift	
Thushara TV & APK Padmanabhan	122
Market Indicators	129
Advertisers' Index	146



Association of India

FRAGRANCES & FLAVOURS
ASSOCIATION OF INDIA

N. R. Shah Hall

2-B, Court Chambers, Second Floor

35, Sir Vithaldas Thackersey Marg,

Mumbai - 400020

Tel.: 022 2209 0184 / 2207 6075

E-mail ID : mail@fafai.org

Website : www.fafai.org

Inland ₹500/-

Single Copy ₹ 150/-

By Air \$ 40

View and Opinions expressed in this publications by various authors are not necessarily those of Association. The Publisher and Editor are in no way responsible for these views and may not necessarily subscribe to these views. Printed and Published

Printed and Published by Kamlesh Hiralal Shah on behalf of Frgrances & Flavours Association of India , 2-B, Court Chambers, 35, Sir Vithaldas Thackersey Marg, Mumbai - 400020 and printed at Onlooker Press, 16 Sasoon Dock, Colaba, Mumbai - 400 005, Editor Rishabh C. Kothari



Leo Chemo Plast Pvt. Ltd.

In pursuit of excellence

WE HAVE READY STOCK AVAILABLE AS BELOW:

- ACETOPHENONE
- BENZOIC ACID
- CYCLOHEXANONE
- DI PROPYLENE GLYCOL USP – FRAGRANCE GRADE
- ETHYL ACETO ACETATE
- FORMIC ACID 99%
- ISO BUTANOL
- ISO BUTYRIC ACID
- N BUTYRIC ACID
- N BUTYRALDEHYDE
- PARA TERTIARY OCTYL PHENOL
- PARA TERTIARY BUTYL PHENOL
- PROPIONIC ACID
- PROPYLENE GLYCOL USP
- PROPIONALDEHYDE
- SODIUM METAL
- SODIUM METHOXIDE POWDER
- SODIUM BOROHYDRIDE POWDER
- SODIUM BOROHYDRIDE GRANULAR
- TERTIARY BUTANOL

Contact us for your requirements.

Leo Chemo Plast Pvt. Ltd.

B-126, Ghatkopar Industrial Estate, Off. L.B.S. Marg, Behind R City Mall, Ghatkopar (West), Mumbai - 400 086.

Tel.: 022-4027 9000 (30 lines) ■ Fax : 2500 8356 ■ Email : info@leochemo.com ■ leo@leochemo.com

Website : www.leochemo.com



Dear Friends,

If the pandemic has had an adverse impact on so many things, one of them has been the publication of this Journal. We had consciously chosen not to publish the last one year amidst a ravaging pandemic to prevent unnecessary exposure for both our secretariat as well as our members.

Whether it is our economy, our geographical integrity, or simply the preservation of human life, the last 18 months have been extremely challenging for our nation. This situation has challenged our resilience as a civilisation but as they say, life must go on. With both the Government and the economy opening up, and we all get a semblance of what used to be "normal" for us, we are also happy to be back, signing off the year with this edition of the magazine and looking forward to a new year with renewed optimism, gratitude, healing, and reconnecting.

As we pick up the pieces that we had left behind, what is important is that we believe in ourselves, we believe in what the future holds for us, and of course endeavour to redeem that pledge, only this time in full measure. We need to make 'Atmanirbhar Bharat' much more than a mere slogan, move beyond narrow personal and commercial considerations, until it becomes an article of faith for our countrymen to support one another, as India moves towards reclaiming its rightful place in the world and history.

As Mahatma Gandhi has said, 'Be the change that you wish to see in the world' and it is upon each and every one of us to be 'vocal for local' in every aspect of our businesses and encourage and support our fellow brethren.

With greetings and best wishes,

Rishabh C. Kothari
rck@ckc.in

OUR NATURAL INGREDIENTS INSPIRE THE WORLD'S LEADING FRAGRANCES.



Essential Oil: Ajowan | Aniseed | Basil | Bay Leaf* | Black Pepper | Cabreuva Red* | Cajeput* | Calamus | Cardamom | Carrot Seed* | Cedarwood Virginia* | Celery Seed | Cinnamon Bark | Cinnamon Leaf | Citronella Java | Citronella Lemon | Clary Sage | Clove Bud | Clove Leaf | Coriander Leaf* | Coriander Seed | Cumin Seed | Curcuma Aromatica | Curry Leaf | Cypress | Davana | Dill Seed | Dill Weed | Eucalyptus Globulus 80 | Fennel Seed | Galangal | Geranium Egypt/China | Ginger Grass* | Ginger | Holy Basil* | Jatamansi* | Java Galanga | Lavandin Grosso | Lavender Officinalis | Lemongrass | Litsea Cubeba* | Mace | Marjoram* | Nutmeg | Palmarosa | Parsley Leaf* | Parsley Seed | Peppermint* | Petitgrain | Sage | Tagetes | Tea Tree | Thyme | Turmeric Leaf | Valerian Root | Vetivert | Ylang Ylang 3



Oleoresins: Black Pepper | Capsicum | Cardamom | Celery Seed | Clove Bud | Coriander Seed | Fennel Seed | Ginger | Mace & Nutmeg | Rosemary



SCFE: Black Pepper | Cardamom | Cinnamon | Cumin | Ginger | Nutmeg | White Pepper



Gums

Oils: Elemi | Galbanum | Myrrh |

Olibanum Somalia/India | Opoponax | Styrax

Resinoids: Benzoin | Elni | Labdanum | Oakmoss | Olibanum | Opoponax | Peru Balsam | Styrax



Eco Series

Oils: Bergamot | Cardamom | Geranium | Lavendar | Lavandin | Lemon | Lemongrass | Palmrosa | Rosemary | Vetivert | Ylang

Resinoids: Benzoin | Labdanum | Oakmoss | Styrax | Tolu Balsam



Natural ingredients*: Citral Ex Lemongrass | Geraniol Ex Citronella 85% | Geraniol Ex Palmarosa 85% & 98% | Thymol crystals 95% | Parsley Seed Oil Terpeneless





AQUILA

...Ideas Unlimited

AQUILA ORGANICS PVT. LTD.

Manufacturers Of Flavours

Adding value to customer products through dynamic innovation, based on an in-depth understanding of consumer needs and exceeding customer expectations.

We offer flavour solutions for :

- Bakery
- Beverage
- Confectionery
- Dairy
- Savoury
- Pharmaceuticals
- Oral Care

Registered Office:

101-104, Sunrise Business Park,
Road No 16, Wagle Industrial Estate,
Thane (West) - 400 604, Maharashtra, India.

For your inquires please feel free to contact us on :

Email: sales@aquilaorganics.com

Website: www.aquilaorganics.com

Branch Office:

D-307, Vibhooti Khand,
Gomti nagar, Lucknow,
Uttar Pradesh, 226010, India.

AROMATIC CHEMICALS

Menthol Crystals
 Natural Cis 3 Hexenol 50% to 98%
 Menthone 80/20 (L Menthone 80%, Iso Menthone 20%)
 Menthone 90/10 (L Menthone 90%, Iso Menthone 10%)
 Menthone 95/5 (L Menthone 95%, Iso Menthone 5%)
 Isomenthone 90%
 Menthyl Acetate
 Mint Terpenes
 Peppermint Oil BP/USP (l Menthol 40% and above)
 Anethole 99.8% (Cis Isomer less than than 0.2%)
 Linalool Ex- Mentha Citrata Oil
 Methyl Chavicol 99%
 Terpinene 4 Ol
 D Carvone 99%
 Thymol
 Geraniol Natural (Ex-Palmarosa and Ex-Citronella Jawa)
 Citronellol Natural 95%
 L Carvone 60% to 95% Natural

SPICE OILS

Ajwain Oil, Fennel Seed Oil
 Anethi Oil, Clove Oil, Dill Seed Oil,
 Cumin Seed Oil, Juniper Berry Oil,
 Nutmeg Oil & Caraway Oil

ESSENTIAL OILS

Mentha Piperita Oil
 Mentha Arvensis Oil
 Mentha Citrata Oil
 Spearmint Oil
 Basil Oil
 Lemongrass Oil
 Palmarosa Oil

FLAVOUR

Pharmaceutical / Tooth Paste /
 Chewing Gum Preparation

Virat Exports Pvt Ltd:

612, 6th Floor, Ring Road Mall, Mangalam Place,
 Rohini Sector 3, Delhi - 110085

Tel: +91-11-40367511, 40452511

E-mail: info@viratexports.com, ajay@viratexports.com,

Website: www.viratexports.com

Virat as member:

- IFEAT • US FDA • FICCI • CHEMEXCIL • EOAI
- DELHI CHAMBER OF COMMERCE • FAFAI
- SPICES BOARD OF INDIA • APEDA • FISME

An ISO 9001: 2015 Certified Company, Registered with FDA
 Our Products are KOSHER, HALAL, ISO 22000: 2018, ECO CERT,
 FSSAI Certified and pre-registered for REACH

+91 11 40367511

info@viratexports.com



We
**Craft the
Difference**

AMBER

Ambronica (Ambroxan*)
Karanaorg (Karanal*)

EARTHY

Geosmin

FLORAL

Alpha Damascone
Beta Damascone
Damasconone Total

FRUITY

Fruvertor (Herbavert*)
Strawberone (Strawberiff*)

GREEN/GALBANUM

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

MOSSY

Rionyl OA (Evernyl*)

OZONIC

Methoxy Melonal
Methylozone (Calone*)

SPICY

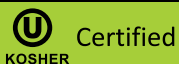
Benzyl Isoeugenol
Oriental Ester (Ethyl Safranate*)
Safranal Pure
Safranal Ultra-Pure



Organica Aromatics®
Smell is what we sell

No. 4'O' & 5'B', KIADB Indl. Area, Dobaspet, Nelamangala Taluk, Bangalore Rural 562 111
Tel: +91 80 2773 5152, 2773 5252 • www.organicaaroma.com • info@organicaaroma.com

INDIA | USA | EUROPE | JAPAN





Musks & Fragrance

Indentors for : AROMATIC CHEMICALS & ESSENTIAL OILS

911/A, 'B' Wing, Kanakia Wall Street, Near Holy Family Church, Andheri Kurla Road,
Andheri (East), Mumbai - 400093.(India).

Tel. : +91-22-68151800(100 lines) E-Mail : indentor@muskfrag.com Web : www.muskfrag.com

We indent for

Kuraray Co. Ltd., Japan

Citral-R / Isoprenol / Isovaleral / Prenol
3MMB (3-Methoxy-3-Methyl-1-Butanol)
2-Phenylpropanal (Hydratropic Aldehyde)

KLJ Plasticizers Ltd. India

KanatoI-800 [DOP] (SUPER) Di-OCTYL PHTHALATE
Kanatol-200 [DEP] Di-ETHYL PHTHALATE
Kanatol-3200C [TEC] TRI-ETHYL CITRATE
Kanatol-8A [DOA] Di-OCTYL ADIPATE
Kanatol-2A [DEA] Di-ETHYL ADIPATE
Kanabenz[BOH] BENZYL ALCOHOL
Kanabenz[BBZ] BENZYL BENZOATE

Super Chemicals, India

Cinnamic Alcohol / Yara Yara

Moraya Global Ltd. India

Indole / Skatole / Styrallyl Acetate
Allyl Amyl Glycolate

Aripê Citrus Agro Industrial Ltda. (Bio-Citrus) Brazil

Bitter Orange Oil CP / Orange Oil CP / Lemon Oil CP /
Mandarin Oil CP Green
Mandarin Oil CP Red / Persian Lime Oil CP / Tangerine Oil CP

Jiaxing Zhonghua Chemical Co.Ltd., China

Vanillin Julan Ex Catechol / Vanillin Eternal Pearl
Ethyl Vanillin Eternal Pearl

Fine Fragrances



Quality fragrances for cosmetics, body sprays, fine fragrances, hair oils, gels, lotions, hand wash, sanitizers, body lotions, toilet soaps & detergents.

40
YEARS
OF DELIVERING
ON COMMITMENTS


sonarome

Sonarome Private Limited
One Sonarome Way
KIADB Industrial Area, Doddaballapur
Bangalore 561 203, India
FSSC 22000 & GMP CERTIFIED COMPANY

T +91 80 68902200
F +91 80 68902299
sonarome@sonarome.com
www.sonarome.com



www.bmvfragrances.com

BMV Fragrances (P) Ltd.

Passion Inspired By Nature

**Essential Oils | Absolutes | Resinoids
| Reconstitutions | Perfumery Bases
| Specialities |**

For Sales Enquiry

Mr. Toshin Saxena
+91 9810965941
toshin@bmvfragrances.com

Mr. Dharmendra Makholia
+91 9810954621
sales@bmvfragrances.com



Scan to know more about our products

**J-44, 45, 46 & K-55 (Warehouse) UPSIDC Site V
Kasna Industrial Area Greater Noida,
Gautam Budhh Nagar -201308, Uttar Pradesh, India**





www.bmvfragrances.com

BMV Fragrances (P) Ltd.

Introducing "+" series,

A new approach and a technical breakthrough in making
reconstituted oils and absolutes

**PATENT PENDING : (VIDE PATENT APPLICATION NO.
201811039032, 201911002598)**

Armoise NNO+™

Ambergris Maui NNA+™

Castoreum Absolute NT++

Geranium China NNO+™

Rose Absolute NNA+™

Tonka NNA+™

Introducing ERSATZ series,

ERSATZ

/'ə:sats, 'ɛ:sats/

adjective (of a product) made or used as a substitute,

Bois de ERSATZ

Carnation ERSATZ

Castoreum ERSATZ

Civet ERSATZ

Neroli ERSATZ

Thyme Red ERSATZ

Mr. Toshin Saxena
+91 9810965941
toshin@bmvfragrances.com

Mr. Dharmendra Makholia
+91 9810954621
sales@bmvfragrances.com

J-44, 45, 46 & K-55 (Warehouse) UPSIDC Site V
Kasna Industrial Area Greater Noida,
Gautam Budhh Nagar -201308, Uttar Pradesh, India

FRAGRANCES & FLAVOURS

THAT EVOKE SENSES & STIR FEELINGS



SACHEEROME

Fragrances & Flavours

EVOKING SENSES

Fragrances Division : F-89/4/2, Okhla Industrial Area,
Phase - 1, New Delhi - 110020, India.

Flavours Division : Y4 Okhla Industrial Area Phase - 2,
New Delhi - 110020, India

T: +91-11-4731 1111


Mumbai : 1007, 10th Floor, KP Aarum, Marol Maroshi Road,
Andheri East, Mumbai - 400059, India.

T: +91-22-2920 2027 & 2028

 www.sacheerome.com

 info@sacheerome.com

 [linkedin/sacheerome](https://www.linkedin.com/company/sacheerome)

 [instagram/sacheeromeglobal](https://www.instagram.com/sacheeromeglobal)

Aromatic Chemicals and Essential Oils

An essence of purity



Aroma Chemicals and Essential Oils

Alpha / Beta / Methyl Ionone
Alpha Terpinene
Anethole
CIS-3-Hexenol/Hexenyl/Salicylate
Citronellyl Acetate
Citral
Citronellol
Citronellal
Clove Leaf Oil Rectified 85%
Camphor
Citronella Oil
D-Limonene
Dihydromyrcenol
Eucalyptol 99.5%
Eucalyptus Oils

Eugenol
Frankincense Oil
Gamma Methyl Ionone
Geranyl Acetate
Geranium Oil-E Brand
Hedione / MDJ
Hydroxy Citronellal
ISO Eugenol
Isobornyl Acetate
Isoborneol
Iso E- Super
Lavender Oil
L — Carvone
Linalyl Acetate
Ligustral

Lilial
Linalool
Lemongrass Oil
Methyl Ionone
Nerol
Orange Oil
Pyranol
Patchouli Oil
Paracymene
Raspberry Ketone
Sabinene
Terpineol
Tetrahydrogeraniol (DMO)
Tetrahydrolinalool
Terpinene-4 OL - 98%

AN ISO & GMP CERTIFIED LEADING IMPORTER & DISTRIBUTOR

UNITED MULTICHEM LLP

United Multichem LLP

30, Ground Floor, Devika Tower, 6, Nehru Place, New Delhi - 110019, India
0120-4192736, +91-7303391140 sales@unitedmultichem.com
www.unitedmultichem.com

fssai



Partners



Indesso





NISHANT AROMAS

Quality Source for Aroma Ingredients

If you are looking out for Quality, Price and Delivery, We are the best choice.

Certified For :



ISO 14001:2004 ISO 9001:2008

Aromatic Chemicals

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			





NISHANT AROMAS

Quality Source for Aroma Ingredients

Certified For :



ISO 14001:2004 ISO 9001:2008

If you are looking out for Quality, Price and Delivery, We are the best choice.

Schiff's Base

Aurantiol
Anisic Aldehyde Schiff's Base
Benzaldehyde Schiff's Base
Citronellal Schiff's Base
Citral Schiff's Base
Indolene
Tolualdehyde Schiff's Base

Absolutes

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

Essential Oils

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



604, 605, 606, 607 Lotus Business Park, Ram Bagh Lane, Off S V Road,
Malad (W), Mumbai- 400 064. Tel. : 022 2880 6611 / 22 / 33 / 44
Website : www.nishantaromas.com, Email : info@nishantaromas.com

Our Agents

South India:

"MASP ENTERPRISES" 28/3, "GANDHAN",
5TH MAIN, 2ND CROSS, CHAMRAJPET,
BANGALORE - 560 018.
Tel: +91-80-2261 0076/+91-94834 26971
Email ID: maspenterprise@gmail.com

North India :

Mr. Govind Tiwari,
Kannauj (U.P.)
Tel.: 05694-235004,
Mob.: 09839715553

Mr. P. V. Pillai,

Pune, Maharashtra.
Tel.: 020-27356718,
Mob.: 9665065184
Email: pillai.vidyadharan@yahoo.com





MANISH MINERALS AND CHEMICALS

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

CLEANER RAW MATERIAL

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

TOPS / RESIDUES

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

RAW MATERIALS

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

SPECIALITY PRODUCTS

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

FRAGRANCES

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

SPECIALITY PERFUMES

DHM
ANTHAMBER
NEROL
LINALOOL
GERANIOL
SAFRANAL

205, 2nd Floor, Eastern Court, Plot No. 12, V N Purav Marg, Chembur (E), Mumbai - 400 071. INDIA
T : +91-22-2522 3110 | 2522 3142 | 43 • M : +91 9821145689 • E : marketing@indiammc.com
W : www.manishmineralsandchemicals.com



Exploring new sandalwood Facets with Javanol[®] Super



Our name is an invitation to engage your senses at
www.givaudan.com

Givaudan (India) Pvt Ltd.
Fragrance Ingredients Business
Akruti Center Point, 4th Floor,
MIDC Central Road, Andheri East,
Mumbai 400 093, India
Tel # +91-22-66625749

Givaudan

engage your senses

TODAY'S COMPETITIVE BUSINESS DEMAND PRECISE SOURCING OF RAW MATERIALS

You may trust us.

ESSENTIAL OILS

AJOWAN
ANISE
AMYRIS
BASIL
BERGAMOT
BLACK PEPPER
CAJUPUT
CALAMUS
CANANGA
CARAWAY
CARDAMOM
CASSIA
CEDARWOOD
CELERYSEED
CINNAMON
CITRATA
CLARYSAGE
CLOVE
CORIANDER
CUMIN
CYPRESS
CARROT SEED OIL
CIT-JAWA OIL
DILL SEED
EUCALYPTUS
FRANKINCENSE
FENNEL
GERANIUM
GINGER
GRAPEFRUIT
GUAICWOOD
GURJAN
JAMROSA
JUNIPERBERRY
KAPOOR KACHRI
LAVENDER
LAVANDIN
LEMON
LIME OIL

LEMONGRASS
MANDARIN
NAGAR MOTHA
MARJORAM OIL
MACE OIL
M. CITRATA OIL
NEROLI
ORANGE
PATCHOULI
PETITGRAIN
PALMROSA
PEPPERMINT
PAN LEAF OIL
ROSEMARY
SPEARMINT
SANDAL WOOD OIL
SUGANDH KOKILA OIL
SUGANDH BALA OIL
SUGANDH MANTRI OIL
TEA TREE
TAGETUS OIL
TOMER SEED OIL
TURMERIC
YLANG YLANG
VETIVER OIL

AROMA CHEMICALS

ANETHOLE
ALPHA PINENE
ALPHA COPAENE
BERGAMOTENE
BETA PINENE
BISABOLENE
CARVONE
CARYOPHYLLENE
CIS-3-HEXENOL
CIS 3 HEXENYL ACETATE
CITRONELLOL
CITRONELLYL ACETATE
CITRONELLYL FORMATE

DILAPOLE
DI HYDRO MYRCENOL
EUCALYPTOL
EUGENOL
EUGENYL ACETATE
GERANIOL
GERANYL ACETATE
GERANYL FORMATE
HUMULENE
ISO EUGENOL
ISO MENTHONE
LIMONENE
LINALYL ACETATE
LINALOOL
METHYL CHAVICOL
MENTHYL ACETATE
MENTHOL
MENTHONE
MYRCENE
OCIMENE
3-OCTANOL
3-OCTANONE
3-OCTANYL ACETATE
3-OCTANYL FORMATE
PARA CYMENE
PHELLANDRENE
PINENES
PHENYL ETHYL ALCOHOL
PHENYL ETHYL ACETATE
PHENYL ETHYL METHYL ETHER
PHENYL ETHYL FORMATE
TERPINYL ACETATE
TERPINENE (GAMMA)
TERPINENE-4-OL
TERPINEOL
THYMOL

RESINOIDS

BENZOIN
LABDANUM

CARRIER OILS

ARGAN
ALMOND
APRICOT
AVOCADO OIL
EVENING PRIME ROSE OIL
FLAXSEED
GRAPESEED
HAZELNUT
JOJOBA
LINSEED
NEEM
OLIVE
WHEAT GERM
WALNUT

BASES

AGAR ART
AMBER
ANIMALIS
CIVET
HYACINTH
JASMINE
KEWRA
MUSK
OAKMOSS
ROSE
SANDAL ART
SHAMAMA



SIVA EXPORT CORPORATION

Som Santi House, 152, Patparganj Industrial Estate, Delhi - 110092, India

Phones: 91-11-22148207,22143195,22153077 Fax: 91-11-22143066 website: www.somextracts.com, Email: s.v@somextracts.com



SOM VARSHNEY GROUP since 1973



Taste is Paramount



*No matter what your favourite drink is - Whisky, Brandy, Gin, Vodka,
Rum, Ouzo – good taste is paramount.
Sonarome offers complete range of flavours for alcoholic beverages.*

40
YEARS
OF DELIVERING
ON COMMITMENTS


sonarome
India's No.1 flavour company

Sonarome Private Limited
One Sonarome Way
KIADB Industrial Area, Doddaballapur
Bangalore 561 203, India
FSSC 22000 & GMP CERTIFIED COMPANY

T +91 80 68902200
F +91 80 68902299
sonarome@sonarome.com
www.sonarome.com



**AUTHORISED AGENTS AND DISTRIBUTORS FOR JEAN NIEL PRODUCTS,
PERFUMERY COMPOUNDS AND RAW MATERIALS**

DEALERS IN

A Indian Products

- | | |
|-------------------|----------------------|
| 1 Citronella Oil | 8 Virgin Coconut Oil |
| 2 Lemon Grass Oil | 9 Petitgrain Oil |
| 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

- | | | |
|----------------|--------------|--------------------------------------|
| 1 Bergamot Oil | 3 Orange Oil | 5 Yellow, Red and Green Mandarin Oil |
| 2 Lime Oil | 4 Lemon Oil | |

D Bulgarian Products

- 1 Rose Water Edible (water soluble) 100% pure and natural
- 2 Rose Oil 100% pure and natural

E Specialised Quality of

- | | | |
|-----------------------|-------------|-------------------|
| 1 Precious Wood Extra | 2 Civet RCO | 3 Osmanthus T ABS |
| 4 Cardamom 347 | 5 Ambreine | 6 Castoreum Base |
| 7 Castoreum T ABS | | |

F Australia

- 1 Tea Tree Oil

G Madagascar

- 1 Vanilla Beans - Green and Black

GIRISH ENTERPRISE

1st Floor, Room No. 13, Mani Bhuvan, 9, P Athak Wadi, Princess Street, Mumbai 400002.
Contact Office: 22013385; 22013384 Email Id - Info@girishenterprise.in, Viraat@girishenterprise.in

SOLIR GROUP

1st Floor, Gala No. 43, Mahavir Industrial Estate, Sakinaka, Andheri East, Mumbai-400072.
Contact Office - 28501120 / 28501110 Mobile: Viraat Vajani 9820959540.



DEALERS OF FRAGRANCE COMPOUNDS

FINE FRAGRANCES

COSMETICS

DIFFUSERS

INCENSE / AGARBATTI FRAGRANCES

HOME CARE

ARABIC FRAGRANCES

PERSONAL CARE

Scent Built To Perfection

SOLIR GROUP

OFFICE : 1st Floor , Room No 13
Mani Bhuwan 9 , Pathak
Wadi , Mumbai 400 002

E-MAIL : info@girishenterprise.in
viraat@girishenterprise.in

TEL : 022 22013385 , 022 22013384

MOBILE NO : +91 9321328476
+91 9820959540

WE
ARE

CONTINUOUSLY
TRANSFORMING, WHILE
REMAINING TRUE TO OUR
FOUNDING IDEALS

VARIED,
YET UNITED BY AN
ENERGETIC PURSUIT
OF OUR GOALS
AND VISION

Keva



THE INTANGIBLE CATALYST
THAT PRODUCES TANGIBLE
RESULTS

WHERE SCIENCE BLENDS WITH ART

01 | A SCIENTIFIC EDGE AND AN ARTISTIC IMAGINATION

A scientific edge and an artistic imagination are the integral pillars of Keva (S H Kelkar & Company Limited) that began in 1922. Here, science and art have played an equal part, ensuring continued growth and success for our clients across the world.

EXPERTS IN
FRAGRANCES
AND FLAVOURS

02 | CONTINUOUS EVOLUTION & STRATEGIC INVESTMENTS IN TECHNOLOGIES & NEW MARKETS

Globalized economy entails a more complex and competitive landscape. We embrace this challenge wholeheartedly as we consistently evolve and refine our offerings and processes.

ARTISTS,
WHOSE CREATIONS
ADD VIBRANCY TO
THE LIVES OF MILLIONS
AROUND THE WORLD

03 | LARGE SCALE, YET OPERATIONALLY NIMBLE

Our manufacturing excellence stems from the ease with which we manage complex operations, resulting in a unique combination of size and agility.

04 | SPREAD ACROSS THE GLOBE

Manufacturing facilities at India, Netherlands & Italy. Creative centres in Mumbai & Amsterdam. Cater to clients across Asia, South East Asia, Middle East, Europe & Africa.

FRAGRANCES, FLAVOURS & AROMA INGREDIENTS

Our memorable scents and flavours are present across varied categories and we are involved with millions of brands!

S H Kelkar & Company Limited

L.B.S. Marg, Near Balrajeshwar Temple, Mulund (W), Mumbai - 400 080.

+91 22 2167 7777 | +91 22 2164 9161 | www.keva.co.in

BALAJI TRADING COMPANY

DEALERS IN NATURAL ESSENTIAL OILS, AROMATIC CHEMICALS AND VEGETABLE OILS

STOCKISTS FOR



BALSAM COPAIBA	BALSAM TOLU
BASIL OIL EXTRA	BIRCH TAR OIL EXTRA
CAMOMILE OIL BLUE EXTRA	COGNAC GREEN OIL
CYPRESS OIL EXTRA	ELEMI OIL
ELEMI RESINOID	GALBANUM OIL
GERANIUM OIL AFRICAN	GRAPE FRUIT OIL EXTRA
JUNIPERBERRY OIL FG	LABDANUM ABSOLUTE
LABDANUM RESINOID	LAVENDER ABSOLUTE
LAVENDER BARREME 50/52%	LAVENDER OIL 38/40%
LAVENDIN OIL	LEMON OIL ITALIAN
LIME OIL	MARJORAM OIL
MYRTLE OIL	NEROLI OIL FG
OAKMOSS ABSOLUTE	OPOPONAX RESINOID
PETITGRAIN OIL	PIMENTO BERRY
ROSE OIL RECONSTITUTED FG	ROSEMARY OIL
STYRAX HONDURAS RESINOID	TARRAGON OIL
	YLANG YLANG OIL

AND MANY OTHER PRODUCTS ON DEMAND

WRITE TO US ON :-

507 NAIN KRUPA BUILDING , 118/122 KAZI SYED STREET , MUMBAI – 400 003
TEL : 022 23432526/23448032 FAX: 23401805 EMAIL : thakker_group@outlook.com

WEBSITE : www.thakkergroup.co.in

ASHISH THAKKER 9870031751

MAHESH THAKKER 9821334436

71st AGM of FAFAI

The 71st Annual General Meeting of Fragrances and Flavours Association of India was held on Saturday the 30th January, 2021 through video conferencing.

In his address, President Mr. Rishabh C. Kothari said due to the current restrictions regarding physical gatherings, we are unable to meet in person and host this AGM, but such an online meeting also gives us an opportunity for all of us to meet and discuss and exchange ideas and suggestions.

The report of the Managing Committee, the Audited Accounts for the year 2019-20 and budget for the year 2020-21 were adopted during the AGM.

The General Body also approved extending the term of the 36th Managing Committee for a further period of two years to complete all unfinished tasks and projects including the 25th FAFAI Silver Jubilee Seminar.

At the end of the proceedings, many senior members appreciated the efforts and contribution of President Mr. Rishabh C. Kothari and the entire team for organizing several events in the last few months in spite of the many challenges.

Some members even opined it is better to always have the conduct of the Annual General Meetings virtually which will enable greater participation of members from various parts of the country. It is very difficult for members from outside Mumbai to physically attend the Annual General Meeting, normally held in Mumbai, and as this is an All India body with a very large number of members present in other parts of the country, their presence should also be taken into account.

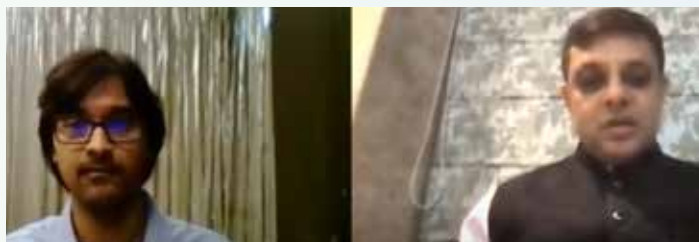
The meeting concluded with a vote of thanks proposed by the Hon. Secretary Mr. Shyam Prabhu.

FAFAI First Virtual Bazar 2021

With a view to facilitate a platform for exchange of

information and highlighting of new or old products, technologies, initiatives or even ideas to all our members, FAFAI was organized a Virtual Bazar 2021 on 21st February, 2021.

FAFAI President Mr. Rishabh C. Kothari while inaugurating the FAFAI Virtual Bazar 2021 spoke about the importance of such virtual events and gatherings, especially since in-person activities and events have come to a standstill due to the pandemic globally. He expressed his satisfaction at the extremely large number of registrations for the event and thanked all the delegates, the participating companies, the sponsors, supporting organizations and media partners for their interest and support for this initiative. He particularly appreciated Mr. Krish Hirani, the convenor of the event for all his efforts in organizing this event and asked him to take the proceedings forward.



Mr. Krish Hirani welcomed the participants and attendees and briefed the members about the event. The FAFAI Virtual Bazar 2021 was attended by over 900 delegates from all over India as well as overseas.

The following companies very generously sponsored the FAFAI Virtual Bazar 2021 and made the event possible.

1. M/s. BMV Fragrances Pvt Ltd., Noida
2. M/s. Jayshree Aromatics Pvt. Ltd., Ankleshwar
3. M/s. Norex Flavours Pvt. Ltd.,UP

The following companies participated as 'Presenters' at the FAFAI Virtual Bazar 2021 and showcased their products and to the audience.

- 1) M/s. Aarav Fragrances and Flavours Pvt. Ltd., Mumbai
- 2) M/s. International Flavours & Fragrances,
- 3) M/s. IFF / LMR
- 4) M/s. Soofi Traders, Mumbai
- 5) M/s. Fine Fragrance Pvt. Ltd., Mumbai
- 6) M/s. Firmenich Aromatics Pvt. Ltd., Mumbai
- 7) M/s. BASF India Limited, Mumbai
- 8) M/s. Processware ERP, Kolkata
- 9) M/s. Biolandes, France
- 10) M/s. Givaudan, Mumbai
- 11) M/s. Indo GSP Chemicals, Mumbai
- 12) M/s. Mamta Polycoats, Vadodara

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

The event was supported by the following organizations

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

FAFAI is also grateful to its Media Partner for the event M/s. Incense Media for their support and publicity given to the event.

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

Anti-Dumping Duty on Coumarin

We are very happy that with the efforts of the Managing Committee, the support of senior members of the industry and understanding and co-operation of officials of the Ministry of Commerce in India, the anti-dumping duty on Coumarin is no longer applicable.

Anti-dumping duty on the Import of Coumarin originating or imported from PR China - Vide Customs Notification 20/2016 Customs (ADD) dated 27th May 2016, based on Notification 15/26/2014 dated 2nd March 2016 of the DGAD, had been imposed for a period of five years.

As this notification was due to expire on 26th May 2021, FAFAI had been in touch with the concerned government departments and officials regarding this notification and with these efforts, no further extension on the same was announced and the said notification and consequent anti-dumping duty lapsed on that date.

FAFAI Flavour Meet

Over the last few years FAFAI members have been facing innumerable challenges in the flavour industry regulations, its interpretations, understanding, relevance, dynamic changes based on country-wise standards and more.

This has created a lack of coherent and complete understanding of the ground realities leading to ambiguities and uncertainties. With India being in the cusp of change, there is all the more need to understand these with greater clarity, assimilate as appropriate and adapt to the new world environment for sustainable and progressive business development.

In view of this FAFAI Flavour Committee had organized an Online Panel discussion on **“Demystifying Indian Flavour Regulations for Global Competence”** Regulations in partnership with IFEAT and IOFI and the discussion was followed by Q & A where the participants discussed with panellists on 18th August 2021.

The following were the panellists of the event.

- 1) Mr. T.S. Gulhati, Chairman, Sonarome-Frutarom India
- 2) Mr. Sven Ballschmiede, Executive Director, IOFI
- 3) Ms. Jing YI M.SC, Senior Advocacy & Regulatory Affairs Manager, IOFI
- 4) Mr. Jonathan M. Bonello, Chief Scientific Officer, IFEAT
- 5) Mr. Rajendra Dobriyal, Director, Scientific and Regulatory Affairs. India and South West Asia, Coca-Cola
- 6) Mr. A Appa Rao, Director, CEC Flavours & Fragrances Pvt. Ltd., T.N
- 7) Ms. Proya Arora, Manager, Regulatory, IFF India Pvt. Ltd.
- 8) Mr. Satish Kolhe, Regional Regulatory Head, Givaudan.

The meeting was chaired by the Chairman of the Flavour Committee Mr. Geemon Korah. The meeting was attended by about 140 members from all over the country and also representative from IFEAT, IOFI and Flavour industry personnel.

The Flavour Meet turned out to be a grand event.

A Masterclass on Managing Conflicts and Driving Growth In Family Managed Business

Family businesses are uniquely complex enterprises. There are many challenges that Indian family businesses are facing today.

For solutions for these challenges and to discuss further on these issues for benefit of members, FAFAI had tied up with the SP Jain School of Global Management to present a Management Masterclass session on **“Managing Conflicts and Driving Growth in Family Managed Business”** by Prof. (Dr.) Parimal Merchant - Program Director at SP Jain School of Global Management and an authority on

Family Managed Business. This was organized on 21st August 2021 via zoom link.



The event was attended by about 100 members and it was grand success.

FAFAI's Partnership with Barcelona Olfaction Week

The Barcelona Olfaction week, an international event that aims to promote innovation and interconnects the perfume industry. The virtual event was held from 29th May to 5th June 2021.

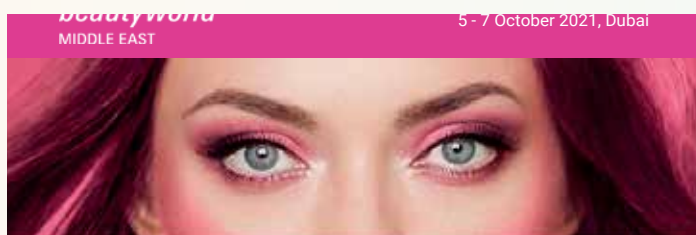


The Registration amount to attend this event was US\$ 442 per person but as a special gesture, the Registration was offered FREE for all FAFAI Members through a special arrangement with the organisers.

Many FAFAI members availed this facility and benefitted by attending this event.

Partnership between FAFAI & Beauty World Middle East

Beauty World Middle East is the largest International Trade Fairs for beauty products, hair, fragrances and well-being in the Middle East.



Supporting Partner



Dear Members of the Fragrance and Flavours Association of India,

Beautyworld Middle East is the leading trade platform for the beauty, fragrance and wellness industry in the Middle East and will be the first truly international event to take place this year.

We are honoured to announce our collaboration with Beautyworld Middle East as a Supporting Partner for the upcoming edition taking place from 5 – 7 October, 2021 at the Dubai World Trade Centre.

As a valued member you gain from:

- 5% discount on total space at the 2021 event
- Complimentary access to the Business Matchmaking Program
- Opportunity to be featured in social posts and e-newsletters to a database of 190,000+ records

FAFAI started its collaboration with Beauty World Middle East as a supporting partner for the edition took place from 5th to 7th October, 2021 at the Dubai World Trade Centre, UAE.

With this partnership, FAFAI members got the following benefit

- 5% discount on total space at the Event
- Complimentary access to their exclusive Business Matchmaking Programme
- Opportunity to be featured in social posts and e-newsletters

FAFAI's Partnership with Global Ayurveda & Wellness Expo

FAFAI was one of the supporting partner for the event organised by the Federation of India Chambers of Commerce & Industry [FICCI] jointly with the Union Ministry of Commerce & Industry, Govt. of India called the Global Ayurveda and Wellness Expo. The virtual event was held from 16th to 18th November 2021.

The 3 days comprehensive Virtual Expo was provided a platform for business houses and individuals related to Ayurveda, Herbal Products, Homeopathy, Food and cosmetics, Yoga, wellness centres, Unani, Siddha etc.

FAFAI President was one of the speakers at the inaugural function.

Partnership between FAFAI & ChemExpo India 2022

ChemExpo India, one of India's most comprehensive trade show for the Chemical and Allied Industries is scheduled to be held on April, 20-21, 2022 at Bombay Exhibition Centre, Mumbai. More than 10,000 visitors are expected to attend the event from all parts of India and across the globe.



Fragrances and Flavours Association of India (FAFAI) is pleased to support ChemExpo India 2022. Participating members will be offered a special discount of 10% as part of the understanding.

Supported by



FAFAI is one of the supporting partners and FAFAI members will receive a special discount of 10% from the organizers. Interested members may kindly contact the organizers directly as per details given below:

Mr. Rohit Pande,
Project Head, ChemExpo India
Mobile # 98202 24550
rohit@chemexpoindia.com

OUR PRODUCT RANGE

- Sandalwood Oil (Indian, African, Australian)
- Vetiver Oil (Haiti)
- Amyris Oil (Haiti)
- Geranium Oil (Indian, Chinese, Egyptian)
- Patchouli Oil (Indonesia)



ESSENTIAL OILS

- Lemongrass Oil
- Citronella Oil (Java, Ceylon)
- Gurjam Balsam Oil
- Tea Tree Oil
- Buddhawood Oil
- Lavender Oil
- Cinnamon Bark Oil
- Cinnamon Leaf Oil
- Cedarwood Oil
- Mcgregory Oil

NATURAL INGREDIENTS

- Shea Butter (Refined)
- Kokum Butter
- Sandalwood Powder (Pure)
- Sandalwood Powder (De-Oiled)
- Sandalwood Hard Resin (Ethanol Based)
- Sandalwood Hard Resin (Hexene Based)
- Soapnut Extract Powder
- Soapnut Extract Liquid

OTHER PRODUCTS

- Saffron
- Spices Grounds
- Spice Extracts



EXCLUSIVE DISTRIBUTION PARTNER FOR AROMAX LLC. S. A.
HAITI FOR VETIVER OIL AND AMYRIS OIL.



Email: anubhav@aditiessentialoil.com / aicorp@aditiessentialoil.com
Mobile: +91 9819785911 / +91 22 2682 3910 |
Website: <http://www.aditiessentialoil.com>



Musks & Fragrance

Indentors for : AROMATIC CHEMICALS & ESSENTIAL OILS

911/A, 'B' Wing, Kanakia Wall Street, Near Holy Family Church,
Andheri Kurla Road, Andheri (East), Mumbai - 400093.(India).
Tel. : +91-22-68151800(100 lines) E-Mail : indentor@muskfrag.com
Web : www.muskfrag.com

WE INDENT FOR

Orange Oil CP

Lemon Oil CP

Bitter Orange Oil CP

Mandarin Oil CP Green

Mandarin Oil CP Red

Tangerine Oil CP

Persian Lime Oil CP

ARIPE CITRUS AGRO INDUSTRIAL LTDA.(BIO-CITRUS)

BRAZIL



Keva to distribute Isobionics' Sandalwood oil substitute

Mumbai based fragrance & flavour (F&F) major Keva, will exclusively distribute Isobionics' fragrance ingredient *Santalol* in India.

The ingredient - touted as a convincing alternative to sandalwood oil - is the first joint product from German chemical giant BASF and Isobionics. BASF had acquired the biotech firm in 2019 to enter the natural's aroma ingredients segment.



"Thanks to its strong network in the F&F industry, Keva will help us serve the consistently high demand from our Indian customers for an alternative to sandalwood oil. Our fermentation-based product offers consistent high quality and saves natural resources." Said Mr. Toine Janssen, Managing Director of Isobionics.

According to the companies, the proprietary manufacturing process off *Santalol* makes the product unique. It is produced on a biotechnological basis from renewable raw materials.

"The new product is milestone for the fragrance market in India. Isobionics *Santalol* is independent of weather and harvest conditions and is readily available," commented Mr. Kedar Vaze, CEO of Keva group.

hpicindia, March 2021

Yasho Industries announces Rs.10 crore capacity expansion plan



Yasho Industries Ltd., a leading speciality and fine chemicals firm, has announced that its Board of

Directors has approved capex of upto Rs. 10 crores for enhancement of capacity from 9,200-tpa to 11,000-tpa through de-bottlenecking and additional ancillary equipment. The company operates three manufacturing units in Vapi, Gujarat.

Commenting on the development, Mr. Parag Jhaveri, the Company's Managing Director & CEO said, "Looking at the current demand for our range of products, we are incurring a capex of upto Rs. 10 crore to enhance our existing capacity by 1800 tpa through de-bottlenecking. For FY 21, we were running at 84% capacity utilisation at our Vapi facilities. The said capacity expansion is expected to commercialise by Q3FY22 and will be able to serve incremental demand during FY22".

The company said its rubber chemicals, lubricant chemicals and speciality chemicals businesses have witnessed robust growth over the last few years. "This capex will lay a foundation for the next phase of growth for the company. This step will further help us to reduce effluent, generate high yield and increase fungibility," it added.

Chemical Weekly, June 29,2021

S. Kushalchand International Pvt.Ltd. 45th rank in ICIS - Asia Pacific Chemical distribution leaders (2020 sales)

Speaking for the 1st time about the journey on the recent ICIS ranking of SKIL, Mr. Sudhir Hirani

- Director Operations commented that "SKIL means the way forward in creating a stimulus for a sustainable & robust market network for its consumers and suppliers across the Globe"

Customers know S. KUSHALCHAND has been a regular household name for all due to its established supply chain & logistics network across geographies wherever food, life-science, cosmetics, consumer care, nutraceuticals, perfumery & industrial chemicals find their way to the market

SKIL achieved 45th rank in Asia Pacific amongst the top 100 world class chemical distribution companies. The omnipresent SKIL today is a mammoth handling a chemical volume of 600mt in 2018 to 1985mt in 2021 registering a growth of 230% from its stock & sales across PAN India and Asia.

SKIL registered a robust growth in value by a whopping 67% in 2021. The growth in value and volume was a strategic move for this family owned group moving towards a thoughtful professional entity and diversifying businesses from specialty to life saving and industrial commodities

All plans on operations and strategy were discussed in 2015 and CAPEX investment was allotted in terms of resource allocation, warehousing, logistical infrastructure & technology enhancement to create a robust and strategic distribution network for its consumers & suppliers across the global market which resulted in achieving the desired growth in less than 5 years for the company

SKIL looks forward for a sustainable journey to achieve a lion's market share in India's chemical distribution market as VISION INDIA tries to achieve 5 trillion dollar economy

India being a quite price sensitive market in Asia and globally due to its varied geography and distance to reach its consumer has still left dearth of market for good chemical suppliers to explore

The global chemical distribution market size was valued at USD 239 billion in 2019 and is expected to

grow at a compound annual growth rate (CAGR) of 5.3% from 2020 to 2027. Increasing consumption of chemicals across end-use industries such as food, pharma, cosmetics, nutraceuticals, construction, polymers, and resins coupled with high complexity in reaching the customers on time is likely to drive the opportunities for chemical distributors in India over the coming years.

Growth drivers for India's chemical distribution business

- ❖ Rising disposable income, median age of population, urbanization and growing penetration and demand from rural markets
- ❖ Shift in production and consumption towards Asian and South East Asian countries in all sectors leading to increase in demand for chemicals and petro chemicals.
- ❖ Shift in consumer preferences towards a healthier lifestyle and environmentally friendly products
- ❖ Opportunity to produce \$111Bn worth of chemical products by 2023 for domestic requirements
- ❖ Production linked incentives, schemes for manufacturing of Advance Cell Chemistry Battery under AATMANIRBHAR BHARAT ABHIYAAN

"It's not enough for businesses to say, 'We value our customers and our markets' ' Businesses need to show how they are doing that, then let our suppliers and customers decide for themselves what avenues are appropriate to use and what's not" commented Mr. Sudhir Hirani.



SUDHIR HIRANI
Director Operations

Aroma Chemiclas firm, Eternis, acquires UK's Tennants Fine Chemicals and subsidiaries

Mumbai-based aroma chemicals specialist, Eternis Fine Chemicals Ltd. has completed an acquisition of 100% shareholding of UK-based Tennants Fine Chemicals Ltd. and its wholly-owned subsidiaries in Singapore and China, from Tennants Consolidated Ltd.

Eternis said the acquisition will expand and complement its range of aroma chemicals, while the multi-location manufacturing and distribution platforms will help it to better service customers regionally and de-risk supply chain.

Eternis is a Mariwala family-owned business that has been in the fragrance and flavour industry since decades. Eternis was set up in 1988 originally as Hindustan Polyamides and Fibers Ltd. (HPFL) and was re-branded as Eternis Fine Chemicals Ltd. in 2015. The company has three manufacturing facilities in Maharashtra with a total capacity of over 40,000-tpa of aroma chemicals. Eternis made its first acquisition in 2018 with the addition of Aims Impex in India and has been continuously expanding its capacities at its other manufacturing facilities.



Eternis acquires Tennants Fine Chemicals

Commenting on completion of its first overseas acquisition, Eternis Managing Director Mr. Rajen Mariwala, said, "The addition of this large independent, high-end manufacturer enhances our business and brings with it many strategic advantages. We will now have established operations in Europe and Asia, with the ability to service our customers from stock hubs and partners. The combined product offer will position us well for further growth."

Mr. Billy Gittins, Managing Director of Tennants Fine Chemicals added, "our combined manufacturing

footprint across two key regions will offer better security of supply. Our regional service strategy in China and SE Asia has proved beneficial and will be further strengthened with the addition of Eternis' products."

Tennants Fine Chemicals, until January 31, 2021, was a subsidiary of the Tennants Group (Tennants Consolidated Ltd.) and is the largest primary manufacturer of speciality aroma chemicals. The company has a nameplate capacity for over 26,000 tons of liquid chemicals each year, exporting to almost 90 different countries worldwide.

Emami scouting for acquisitions to strengthen footprint

FMCG major, Emami Ltd. is looking out for acquisitions both in India and in international markets to strengthen its footprint, while also tapping at opportunities arising out the coronavirus pandemic, according to the company's Director, Mr. Harsha Vardhan Agarwal.



The company which is seeking to enhance the contribution of sales from e-commerce channel to 6-7% in the next one to two years from the current 2.5-3% of total sales, is scouting for opportunities to invest or buy majority stakes in digital-first brands and companies.

Citing the examples of Emami's acquisitions of Zandu and Kesh King, Mr. Agarwal said, "Going forward we are looking for good acquisition opportunities both in India as well as international markets, where we

see good strategic fit and where we see the right value.”

With up to Rs. 400 crore of cash in hand and being debt-free, he said for Emami the budget for acquisition is not a constraint, but the company is looking more at strategic fit and potential of the target brand.

hpicindia, February, 2021

Indian skin care products market set for strong growth : Report

A new market research report by Allied Market Research has projected the skin care products market to grow at a CAGR of 9.5% from 2021 to 2027 and cross the \$5-bn mark by 2027. The market was valued at \$2.5-bn in 2017.



The market has witnessed substantial growth in the last few years mainly driven by the young demography, upsurge in disposable income and shift of Indian consumers towards healthier lifestyle. Various herbal cosmetics brands are witnessing increase in popularity, owing to rise in inclination of Indian consumers towards natural and herbal skin care products, which is significantly contributing towards the growth of the market.

The key findings of the study include :

Depending on product type, the cream segment dominated the market in 2017, and is expected to retain its dominance throughout the forecast period.

- By demographics, the female segment accounted for higher share in the market growth in 2017, and is projected to grow at a CAGR of 9.1% from 2021 to 2027.
- On the basis of age group, the millennials segment led market demand in 2017, and is expected to retain its dominance throughout the forecast period.
- As per sales channel, the super market / hypermarket led the market share in 2017 and is projected to register a CAGR of 7.6% from 2021 to 2027.

Godrej Consumer enters home cleaning segment

FMCG maker Godrej Consumer Products Ltd. (GCPL) has ventured into home cleaning products, a segment which is witnessing fast growth after the pandemic.

The firm will provide surface cleaning and disinfecting solution under its newly launched brand Godrej ProClean, the company said in a statement.



According to the marketing research firm, AC Nielsen, the home cleaning products segment, which includes branded floor, toilet and bathroom cleaners, is estimated to be around Rs. 2,600-crore. Due to increased awareness about cleanliness and hygiene, consumers are opting for home cleaning products and their preferences have also shaped the demand for durable, new-age products as against the traditionally used cleaners like phenyl.

Commenting on the development, GCPL. CEO India & SAARC, Mr. Sunil Kataria said, "Indian consumers are becoming more hygiene conscious. Demand for cleaning products continues to grow due to consumer alertness concerning the importance of hygiene and the spread of infectious diseases."

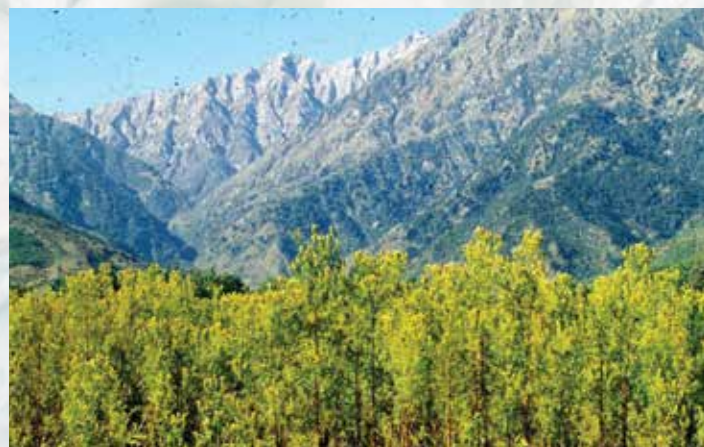
Hp Picindia, January, 2021

Cultivation and processing of wild marigold doubles incomes of farmers in Himachal

Farmers in the Chamba district of Himachal Pradesh, keen for new livelihood options to supplement their income from traditional crops like maize, paddy, and wheat, have found a new lease of life, cultivation of aromatic plants has given them additional income.

They have extracted essential oil from the improved variety of wild marigold (*Tagetes minuta*) that has been introduced, and the profit from wild marigold oil has doubled the income of farmers, as compared to traditional maize, wheat and paddy crops.

The improvement in the fortune of the farmers has been brought about through interventions made by the Society for Technology and Development (STD) Mandi Core Support group, SEED Division, Department of Science and Technology. STD initiated cultivation and processing of an improved variety of wild marigold from the CSIR-Institute of Himalayan Bioresource Technology (CSIR-IHBT), based in Palampur (Himachal Pradesh).



A distillation unit of 250-kg capacity was installed at Parwai Village and farmers trained in the agro-technology of wild marigold cultivation, extraction of oil, packing and storage of oil. The extracted oil is being sold at Rs. 9,500/- kg and used in preparing perfumes and essences. The income of farmers, which was around Rs. 40,000-50,000 per hectare from traditional crops, has increased to about Rs. 100,000 per hectare by cultivation and extraction of wild marigold oil.

Tagetes minuta, valued for its essential oil, is an annual herb branched erect and grows 1-2 m tall. Due to increasing demand of tagetes oil in recent years, there has been an increasing interest in its cultivation. In India, this species finds habitat in Western Himalaya between altitudes of 1000-m to 2500-m. Himachal Pradesh, Jammu & Kashmir and Uttarakhand are the main growing regions, where it occurs in natural habitat as a weed in crop fields.

Tagetes oil finds a good market in perfumery houses and in the flavour industry. The flower-oil and its absolute are used for compounding of high-grade perfumes. The five important acyclic monoterpene ketones and a hydrocarbon – Ocimene (Z and E), Limonene, Dihydrotagetone, Tagetone (Z and E) – in the oil are good source of base material for the synthesis of value-added aroma chemicals. The oil also possesses biological activity due to which it has immense scope in pharmaceutical industries.

hp Picindia, March 2021

IIT Kharagpur researchers develop betel leaf essential oil extractor

Prof. Proshata Guha and his research group from IIT Kharagpur's Agricultural and Food Engineering Department has developed a novel betel leaf oil extraction technology.

Betel Leaf is considered beneficial in terms of digestion, stimulation of senses and fresh breath due to the presence of antimicrobial and antioxidant-rich essential oil. Extraction of this essential oil

from fresh and cured betel leaves is of high interest for industrial applications including medicines, cosmetics, chewable mouth fresher, etc. However, the extraction processes suffer from low economic viability and wastage in the value chain of betel leaves.



Prof. Guha and his team addressed this challenge by developing a novel extraction technology that can improve the overall process efficiency. The extractor is capable of saving 44% of the time and 30% of the energy requirement while increasing the oil yield by more than 16%, as compared to the current process and apparatus popularly used. Describing the equipment, Prof. Guha said, "It is a distillation unit with special modifications for recycling evaporated water which carries the vapours of essential oil from the distillation flask to the condensation unit. It has also a special device to minimise the formation of emulsion for increasing the recovery of essential oil."

Affordable Equipment

The extractor was envisaged to be affordable to the betel leaf growers since the cost of fabrication of the extractor was calculated to be Rs. 10,000 and Rs. 20,000 for 10L and 20L, sizes, respectively. "This could be easily maintained by the small farmers and would also be sufficient for the processing of surplus leaves in any average-sized Boroj (0.02 ha) on a daily or weekly basis. About 10-20 ml of essential oil can be extracted by one person a day using an extractor in three shifts. The price of the oil varies from Rs. 30,000 to about to Rs. 1, 00,000 depending upon the quality of the oil. Mitha variety being costlier than the other varieties," Prof. Guha remarked.

For large rural installations, the researchers have tried to improve the efficiency further by insulating the heat-radiating portions of the apparatus with cheap insulators. Use of fuel requirement can also be reduced substantially if the by-product, i.e de-oiled exhausted leaves are used as fuel. They have developed micro-wave heating-based equipment as well to improve the efficiency of the extraction process and to increase the yield of essential oil. In this attempt, the extraction process was completed within about 50 minutes. Thus, there was a saving of time and energy by about 76% and 43%, respectively.

The equipment can extract essential oil from other organic materials as well, confirmed Prof. Guha. It has been patented and transferred to more than 20 government and private bodies and more are underway, he said.

hpicindia, April, 2021

Growing demand seen for natural and organic home-grown cosmetic brands :

Long before the government sounded the 'vocal for local' call for Indian businesses in 2020, the country's beauty and cosmetics industry had begun witnessing a surge in home-grown brands. And powering their growth is a steady rise in consumer demand in India, which is the fastest growing cosmetics market in the world, according to Mr. Shennai Pushkaraj, member of CII Retail Committee and CEO of cosmetic major Lakme.



The Indian cosmetics market, valued at nearly \$11.16-bn in 2017, is expected to grow at 5.91% (compound annual growth rate) during 2017-25, Mr. Pushkaraj said in an interview with *Hindu Business Line*. "The annual retail sale of cosmetics and other personal care products is growing in the range of 15-20 percent ... Over the past five years, total demand has grown by 60 percent," he added.

A significant segment of this demand is for products that suit Indian skin types and hair – a need that largely remained unfulfilled by international brands, providing the perfect opportunity for local companies. Some of the bigger home-grown names include Khadi Essentials Plum, Mama Earth, Kama Ayurveda, Forest Essentials, SoulTree, Dr. Sheth's Neemli Naturals, Juicy Chemistry and Daughter Earth.

A growing movement away from chemical to natural and, by association, safer – ingredients has seen these companies tap into the country's centuries-old repertoire of ayurvedic and other organic remedies for their formulations. Nearly all the companies advertise their use of natural ingredients – sourced from across the country and even the world – as a differentiating factor. Their other claim is their use of tests, trials and research and development to improve existing products and launch newer and better ones. It also helps that the customised local products are pocket friendly, compared to the international brands.

The last few years have seen a shift in the consumer base, thanks to changing lifestyles, increasing awareness and incomes, and accessibility. Beyond just the usual requirements of nail polish, lipstick and kajal, there is demand for skincare products to treat specific problems and target areas, ranging from lip care to dark circles around eyes, post natal stretch marks, hygiene washes and more. The buyers for these new age Indian labels are mostly young, urban dwellers (particularly women in the 18-35 age group) who are financially independent.

Under the impact of the so-called beauty influencers – millennials who have a large following on social media and can influence the purchase of cosmetic products – young consumers are no longer just seeking brand names but "meaning over materialism", states a report by the FMCG giant, Hindustan Unilever Ltd., which had launched the home-grown Lakme cosmetic brand in 1952. The report adds that young buyers are "demanding brands with a point of view and more authenticity, transparency and sustainability." So, labels that flaunt creds such as 'natural' 'organic', 'vegan', 'against animal testing' and so on find ready takers.

hpicIndia, October 2020

Farmers can use microchips to save sandalwood trees soon

Come March 2021, farmers in Mysuru District can use technology to protect sandalwood trees from smugglers and timber mafia. By inserting sensor-based microchips in trees farmers can monitor its growth and any attempt to steal them. Once installed and linked to smartphones, these chips will also send SOS messages to forest department officials and local police.



These smart chips are being jointly developed by the Bengaluru-based Institute of Wood Science and Technology (IWST) and Hitachi India Pvt. Limited. Forest Department officials said they have got positive feedback from farmers in Raichur and Tamil Nadu who have already installed these chips

on experimental basis. "Scientists in IWST have developed microchips for trees and it is still in the trial stage. Once approved, it will be available for farmers. These chips will have to be inserted 1.5 meter inside the trees and they will be connected to mobile phones," said KC Prashant Kumar, Deputy Conservator of Forests, Mysuru Division.

"Farmers can purchase these microchips from the institute and link it to their phones," experts said.

Times of India, 24th November, 2020

Two more labs in Chennai and Mumbai with GM foods testing

The Food Safety and Standards Authority of India (FSSAI) has sought proposals for setting up two National Food Laboratories (NFLs) in Chennai and Mumbai. Currently FSSAI has two NFLs, one for Northern India in Ghaziabad (NCR) and second at Kolkata for Eastern India.

According to FSSAI official, the apex food regulator intends to set up two more, for South in Chennai, and for West in Mumbai and provision for molecular biology would also be made in these labs keeping in view future requirement of GMO testing in food products.

FSSAI will set up the labs at Chennai Port Trust, in Chennai and JNPT Mumbai, and the labs would run on PPP mode (Public Private Partnership).

The monthly average of import related samples at these ports was more than 700 for CPT and more than 3000 for JNPT during 2019-20, respectively. FSSAI says that the laboratories to be set up should have the competency and capability for testing of quality and safety parameter in all food products as per Food Safety and Standards Regulations (FSSR) with accreditation as per ISO 17025:2017 by National Accreditation Board for Testing and Calibration Laboratories (NABL).

The food products imported through these ports include vegetables, fruits, nuts, coffee, tea, spices, oils, essential oils, preparation of cereals, flour

starch or milk, sugar, confectionery, cocoa, modified starches, enzymes, vegetable extracts, beverages, dairy products, cereals, fish, oil seeds and meat.

In the first three years in Chennai Port, nearly 20,753 samples were tested while in Mumbai around 94,219 samples were sent for testing.

It is pertinent to mention here that in the performance audit report of the Parliamentary Standing Committee and the CAG (Comptroller and Auditor General) of India questions were raised on gaps in food lab infrastructure in the country. Later the Union Health Ministry had entrusted FSSAI to implement a Central sector scheme of upgrading the lab infrastructure in the states as well as establish its own labs across the country, wherein FSSAI's Ghaziabad lab is running in PPP mode, Kolkata lab is owned fully by the apex food regulator and in Mumbai and Chennai, labs will run in PPP mode.

Food & Beverage News, October 1-15, 2020

Delhi govt. bans sub-standard soaps & detergents polluting Yamuna River

The Delhi government has banned the sale, storage, transportation and marketing of soaps and detergents not conforming to the latest Bureau of Indian standards (BIS) parameters to curb pollution in the Yamuna River.

The National Green Tribunal (NGT) had in January this year accepted recommendations of the Yamuna Monitoring Committee (YMC) which had suggested directing the Delhi government to issue orders "prohibiting sale, storage and transportation and marketing of detergents which do not conform to the revised BIS standards". The NGT had also directed to launch awareness campaigns about the harmful effect of using substandard soaps and detergents.

All the authorities concerned, including local bodies, civil supplies department and district administrations having control over shops and other establishments dealing with sale, storage, transportation and marketing facilities for soaps and detergents in Delhi should ensure the compliance of directions through

strict vigil and surprise checks, the Delhi Pollution Control Committee (DPCC) said in an order issued on June 14, 2021.

Experts have cited soaps and detergents as one of the major reasons behind the pollution in the river. Many times, visuals of toxic froth floating on the surface of the river in Delhi also make their way to social media.

The primary reason behind the formation of the toxic foam in the Yamuna is high phosphate content in the wastewater because of detergents used in dyeing industries, *dhobi* ghats and households, according to an official of the Central Pollution Control Board.

"A large number of unbranded detergents are also used in households and dyeing industries. The wastewater containing high phosphate content reach the river through untapped drains," he said. These detergents and other organic matter get deposited in the riverbed when the river is flowing normally. When water falls from a height on reaching a barrage, it leads to turbulence and churning, which causes froth.

A comparison of the 2001 and 2002 BIS standards and those prescribed in 2020 show that sodium tripolyphosphates percentage for the household laundry detergents bars have been decreased from 9.5% (by mass) to 5% for detergent bars, 2,5% for powder and to zero for household detergents for woollen and silk fabrics.

In its report submitted to the NGT, the YMC had also suggested that all the manufacturers of soaps and detergents be directed to disclose the ingredients present in the product and display the same on the package,

Soap making is not confined only to Delhi and even if efforts are made by the Delhi government, it will not have the intended effect on soap and detergent manufacturing in other states. Since the effluent joins the drains and the river in Delhi, the problem will continue, the committee had pointed out.

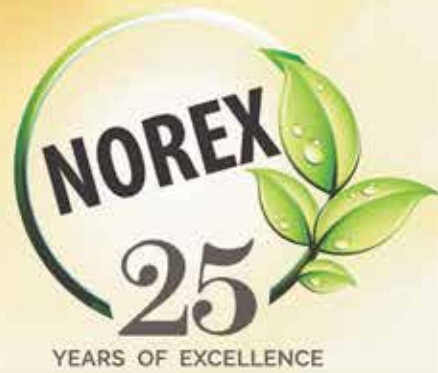
hpicindia, June 202

AVAILABLE AT MOST COMPETITIVE PRICE

- **TEA TREE OIL.**
- **JOJOBA OIL.**
- **WHEATGERM OIL.**
- **OTHER ESSENTIAL OILS FOR AROMA THERAPY.**

*Kamal
Arochem*

Dealers in
Essential Oil & Aromatic Chemicals
1, Amita Co-op. Hsg. Soc. D. K. Angre Marg,
Andheri (East), Mumbai - 400 069
Tel.: 2684 5485 Fax: 2682 4597
E-mail: kamalarochem@hotmail.com
Website: www.kamalarochem.com



WORLD OF POSIBILITIES



FLAVOURS - FRAGRANCES - MENTHOL - MINT OILS - ESSENTIAL OILS

INSPIRED by *Nature*

NOREX FLAVOURS PRIVATE LIMITED

A Star Export House Recognised by Government of India.

Gajroula Chandpur Road,
MANDI DHANAURA - 244231
Distt Amroha, U.P., INDIA

Unit -02, Amroha Road,
DHANAURA - 244231
Distt Amroha, U.P., INDIA

Tel: +91-5924-273095 / 273241
Fax: +91-5924-273328/275318
email: sales@norex.in

Noida Office : 606, 6th Floor, Wave Silver Tower,
Sector 18, Opp. Sector 18 Metro Station,
Noida - 201301, U.P. INDIA | +91 120 2664141

Aroma chemicals and active cosmetics ingredient markets forecast to reach \$9.9-bn by 2025

UK based IAL consultants has released two market reports on the global markets for aroma chemicals and active cosmetic ingredients, forecasting CAGR of over 3% in the period from 2020 till 2025. The information contained within the reports is based upon a programme of interviews throughout the industry, IAL said.

Aroma Chemicals

The report estimates the global market for aroma chemicals in 2020 to be around \$5-bn and expected it to grow at a CAGR of 3.8% to \$6-bn by 2025.



Terpenoids represent the largest product category, with a share of 31%, followed by benzenoids at 24%, with fragrances and their downstream applications being key demand drivers. The market for aroma chemicals is concentrated in the EU, US and China, with a lower demand in developing markets.

According to IAL, growth decelerated in 2019 as a result of price pressure from India and China and some supply chain interruptions in musk, which forced several users to reformulate. Due to the

impact of coronavirus pandemic IAL is expecting growth of 1.5% for 2020. South America will be the most negatively affected this year, while Asia is expected to fare the best.

Several trends are reported, the first being regulatory-based, as producers of aroma chemicals are driven by standards and regulations and must constantly check for product impurities. Notably, each year, there are new regulatory bans on certain molecules. Secondly, the demand for natural aroma chemicals has never been higher, responding to consumer preferences for greener, traceable and sustainable products. The third is the emergence of biotech-based molecules, which are produced by methods akin to fermentation. Other key market drivers include raw material availability and ecotoxicology concerns.

Global market for aroma chemicals, 2020-2025 (US\$ million)

Region	2020	2025	Growth p.a.
EMEA	1,527	1,727	2.5%
Americas	1,590	1,819	2.7%
Asia Pacific	1,888	2,477	5.6%
Total	5,005	6,023	3.8%

Among the leading global suppliers of aroma chemicals are IFF, Symrise, Firmenich, BASF, Givaudan, NHU and DSM.

As of 2020, IAL estimates the global market for active cosmetic ingredients at \$3.3-bn and forecasts it to grow at a CAGR of 3.1% to reach \$3.9 bn by 2025. The largest category is conditioning agents, with a share of 35%, followed by anti-aging ingredients at 22%. The reports define an active cosmetic ingredient as an ingredient that brings about a measurable, desirable, change or effect in one or more cosmetic skin (or hair) parameters.

Although typically a fast growing and dynamic market, active cosmetic ingredients were under

immense pressure in 2020 due to the pandemic. IAL expects a decline of 1.7% in the market in 2020, with a muted recovery in 2021 and 2022.



Global market for active cosmetic ingredients, 2020-25 (US\$ million)

Region	2020	2025	Growth p.a
EMEA	1,217	1,384	2.6%
Americas	1,121	1,290	2.8%
Asia Pacific	1,006	1,217	3.9%
Total	3,343	3,891	3.1%

An evident trend in active cosmetic ingredients is that of 'active lifestyle' or 'holistic beauty, such as products that claim to prepare and protect skin and hair before physical activity or repair after activity. Other trends include personalisation / customisation of cosmetics, research into the skin microbiome, transparency and brand ethics. Consumers also are looking for transparency and traceability in their skin care ingredients.

Among the leading global suppliers of active cosmetic ingredients are BASF, DCM, Symrise, Croda/ Sederema, Evonik, Seppic, Givaudan, Clariant and IFF (Lucas Meyer).

Hpicindia January, 2021

Global jojoba oil derivatives market to be worth around \$50-mn by 2027 : Report

A new market study by Grand View Research Inc has estimated the global jojoba oil derivatives market size to reach \$49.05-mn by 2027, expanding at a CAGR of 7.1% from 2020 to 2027.

Jojoba oil derivatives are extensively used in personal care and cosmetic products, pharmaceutical preparations, and as additives in lubricants. Manufacturers of skincare and hair care products use these derivatives as speciality ingredients for developing advance cosmetic solutions. These products are placed under the premium products category owing to the higher price of chemical used.



Jojoba oil is an oil-like wax extracted from the seeds of the jojoba plant, a shrub native to the south western US. The oil is closest to the oil produced by the human skin called 'sebum' that helps protect and heal the skin from external toxins.

Key findings of the report include :

- in 2019, esters emerged as the dominant product segment in terms of both volume and revenue. This is attributed to them being odourless, colourless, and extremely resistant to oxidative degradation, making them suitable for a broad range of applications.
- The personal care and cosmetics application segment held the largest share in terms of both volume and revenue in 2019 due to high demand for derivatives in skin care, hair care, and baby care products, along with colour cosmetic products.
- In 2019, North America emerged as the dominant regional market in terms of both volume and revenue owing to the growing inclination of manufacturers towards the application of bio-based ingredients.

Jojoba oil derivatives have a respectable history of safe and long-term use in the personal care and

cosmetics, food and beverages, and pharmaceutical sectors, owing to low toxicity profiles.

However, these derivatives are facing a high threat of substitutes from both natural and synthetic ingredients, which possess similar structure, properties, and scope of application. Candelilla wax, beeswax, carnauba wax, and vegetable oils are observed to be natural substitutes. On the other hand, petroleum-based waxes, including paraffin, are also major alternatives to these derivatives.

hpicIndia, October 2020

Men's personal care market set to be worth over \$75-bn by 2027

The global men's personal care market is anticipated to reach \$75.8-bn by 2027, according to a new report by Grand View Research. The market is expected to expand at a CAGR of 6% from 2020 to 2027. Growing popularity among men for daily skincare routine coupled with rising awareness of personal grooming and hygiene are among the key factors driving the market.



Millennial men are becoming more conscious of their physical appearance and are willing to experience innovative products that are proven to work for skin nourishment. Prominent players in the beauty and cosmetics market have been collaborating and launching innovative products specifically designed for men.

Key findings from the report include :

- The personal grooming segment is expected to emerge as the fastest growing product segment with a CAGR at 6.3% during the forecast period. Products such as shaving creams, serum, beard grooming kits, and travel packs offered by mid-range and premium brands are likely to boost segment growth.
- E-commerce distribution channel emerged as the fastest distribution channel in 2019 and is expected to retain its pole position throughout the forecast period.
- In Asia Pacific, the market is expected to witness a CAGR at 6.4% from 2020 to 2027. Growing awareness pertaining to skin wellness and personal care routine with a shift in the lifestyle are some of the factors boosting the market in the region.

hpicindia, January, 2021

Symrise upgrades online platform for aroma molecules

German fragrances and flavours firm Symrise, has completely revamped its online platform for fragrance and flavor raw materials. The 'Ingredient Finder' at Symrise.com (<https://www.symrise.com/scent-and-care/aroma-molecules/ingredient-finder>) provide all the key information about the company's aroma molecules in the fragrance, flavor and pharmaceutical categories.

"The database is intuitive to use: filter functions help users quickly find the desired data. Another



advantage comes from its clear design. Symbols allows users to identify particularly renewable of high impact raw fragrance materials at a glance," the company said in a statement.

Symrise provides detailed information about its product portfolio and makes all important data about its fragrances and pharmaceutical raw materials available in its 'Ingredient Finder'. The online platform's clear design is also being now also used for the company's printed compendiums and data sheets.

For the first time, the 'Ingredient Finder' also provides information on raw materials for pharmaceutical products. These include highly pure synthetic cannabinoids as well as menthols for medicinal applications.

According to the company, users can search for the desired raw material by product name, chemical name, CAS number or FEMA Number. If users are searching without that information, they can find the right product by other means. In the fragrance section, users can filter the portfolio by scents such as floral and citrus. Alternately users can also search for suitable applications such as soap, shampoo or lotion. Likewise, they can look for substances, made from renewable raw materials or high impact substances. In the flavours section, users can search for application areas such as vanilla, tropical fruits or meat notes. They can also filter by origin, such as natural or synthetic.

Symrise and Van Aroma launch online learning platform for Patchouli farmers in Indonesia

German fragrances and flavour firm, Symrise and Van Aroma, the largest supplier of Patchouli Oil worldwide, have launched the 'Nilampedia' platform for farmers in Indonesia on You Tube and Facebook.

The platform aims to provide knowledge and share experience on sustainable patchouli cultivation to secure the supply of patchouli oil, and improve the living conditions for farmers and their families.



"Benefits of this platform include providing interactive opportunities between the Nilampedia team and the farming community to discuss agronomical challenges such as flooding or plant diseases in real-time," Symrise informed in a press note.

hpicindia, March 2021

Symrise opens flavours innovation centre in Dubai

Symrise has opened a new development, application and sensory laboratories in Dubai. The company said the Euro 1-mn centre will "decode, design and deliver taste solutions" for leading food and beverages brands.



The company had recently moved to the iconic 'Gold Tower Building' in the Dubai Multi Commodities Centre (DMCC), Dubai's dedicated hub for global trade, business and specialist industries in Jumeirah Lake Towers (JLT) free zone. The facilities at the new centre are designed to support the development of

consumer-led winning concepts and taste solutions for high-growth categories, beverages, culinary, dairy, snacks, and confectionery, the company said.

"The sensory booths, where panellists taste, evaluate, and describe flavours in application, features state of the art equipment and programmes that help design solutions meeting customers' expectations," it added. Commenting on the move, Mr. Dirk Bennwitz, President Flavour Europe, Africa and Middle East, said, "Our investment in the new hub, our human resources, and the ultramodern creation, development and application facilities will allow us to identify and decipher game-changing industry trends and deliver innovation to our customers across strategic categories and the future of food segments: functional beverages and plant protein."

Chemical Weekly, June 22, 2021

DSM acquires flavour & fragrance bio-based intermediates business from Amyris

DSM has agreed to acquire the flavour and fragrance (F&F) bio-based intermediates business of US-based renewable chemistry specialist, Amyris, which extends DSM's offerings in Aroma Ingredients with bio-based ingredients for the F&F and cosmetics industries.

DSM will acquire the business currently consisting of seven intermediate products (four generating meaningful sales and EBITDA, two just launched and one under development) which will be added to DSM's existing 'Personal Care & Aroma Ingredients' activities.



DSM will acquire the business for an upfront consideration of \$150-mn. Amyris will share in the EBITDA growth over 2021-2024 of certain activities (mainly products just launched/under development), receiving additional earn-outs equal to 9x the realised EBITDA in 2024, which is estimated to result in a total earn-out of \$100-150 mn. DSM and Amyris will continue their R&D partnerships.

In recent years DSM acquired Amyris' Farnesene business and technology for nutritional and F&F ingredients, as well as its Brotas (Brazil) biotechnology manufacturing facilities. DSM has been producing several F&F products for Amyris in this facility.

Sozio acquires Synarome to strengthen perfumery ingredients business

French fine perfumery specialist, Sozio, has announced the acquisition of Synarome Following close on the heels of acquiring Scentessence in February and Phoenix in March.



Based in Chartres (France), Synarome is specialised in organic synthesis and distillation and is expected to achieve net sales of Euro 6-mn in 2021. Drawing on its expertise, Synarome creates many natural extracts and compounds. These aromatic raw materials are notably included in the composition of Synarome bases and specialities. With this new acquisition and the vertical integration of key steps in the creation and manufacturing of ingredients. Sozio intends to strengthen its position and know-how in the creation of fragrances and in the field of organic syntheses, perfumery specialities and distillation for the fragrance industry.

"Besides the iconic ingredients which have made the reputation of the company, such as Ambrarome or Animalis, Synarome produces more than 200 aroma chemicals and specialties for the global flavour and fragrance industry," said Mr. Frederic Braud, General Manager of Sozio. Sozio is emerging as a key global player in the fragrance industry with its acquisition of Phoenix Fragrances in UK, opening of its new factory in Jakarta this year, a new factory planned in China in 2022, and the planned opening of a laboratory in Dubai.

Chemical Weekly June 29, 2021

Givaudan Completes Acquisition of Alderys

Givaudan has announced that it has closed the acquisition of Alderys as part of its longterm strategy to expand its capabilities in bioengineering technologies. Founded in 2009, Alderys is an innovative French biotechnology company headquartered in Orsay, France, employing 30 employees. Alderys develops innovative approaches to the biological engineering of valuable compounds from renewable feedstock.



The projects developed by Alderys are aimed at the chemical and cosmetic industry sectors as well as nutrition. They are recognized for offering innovative technological industrial solutions with high sustainability standards.

Maurizio Volpi, president of Givaudan's fragrance division, said: "Today is an exciting day as we welcome the Alderys employees within the Givaudan family. This acquisition aligns with our company purpose and long-term strategy whilst their expertise in biotechnology is fully complementary to our fragrance and active beauty businesses."

"In fact," Volpi continued, "it will allow us to expand our portfolio of natural and bio-sourced products, thanks to their strong research and development bioengineering platform. It will be an additional tool to drive our future development and innovation in the active cosmetic ingredients space and beyond. It will also reinforce Givaudan's capabilities to support our customers in developing sustainable, performant and safe products."

Dominique Thomas, CEO of Alderys added: "We are very proud to join Givaudan and to bring in the bioengineering platform we have developed with success for ten years. We strongly believe this is a great opportunity to expand our scientific expertise to the service of the beauty, fragrance and flavour industry, whilst we will continue to serve our other historical and future partners as an independent entity within the Givaudan group."

Laurent Bourdeau, head of Givaudan's active beauty business, said: "Alderys has a strong track record in designing innovative biological pathways to produce environmentally - friendly raw materials, which is essential to the way we develop our cosmetic ingredients. With specific scientific programs dedicated to Active Beauty, we are very excited by the capabilities of Alderys to support us in enriching our offer to our customers."

While terms of the deal have not been disclosed, Alderys' business would have represented e3 million of incremental revenues to Givaudan's results in 2019 on a pro-forma basis. Givaudan funded the transaction from existing resources.

Perfumer & Flavorist, October, 2020

Givaudan inaugurates fragrance facility in China :

Swiss manufacturer of flavours, fragrances and active cosmetic ingredients, Givaudan, has opened its newest state-of-the-art fragrance production facility in Changzhou, China.



The facility, costing more than \$110-mn and constructed on a land area of 76,000 square metres, is outfitted with the most advanced auto dosing system allowing for high accuracy and efficiency and an agile manufacturing environment, the company said. It will substantially increase the company's existing manufacturing output spanning personal, home and fabric care fragrances through to oral care flavours, encapsulated fragrances, and prestige perfumes to serve customers in China and Asia Pacific.

"Opening this production facility in China – an important high growth market – demonstrates our commitment to our customers, and aligns to our 2025 strategy and purpose. This investment will strengthen our position as a strategic partner to our customers in the region and will cater to the increasing consumer demands for great smelling sustainable fragrances." Commented Mr. Gilles Andrier, the company's CEO.

In line with the company's ambitious climate action agenda, the facility is equipped with energy efficient facilities such as centralised chillers, variable speed drive motors and compressors, as well as

light emitting diode (LED) lights. A solar system project expected to complete by early 2021 will also contribute to the company's commitment to use 100% renewable electricity by 2025.

Ms. Yaling Li, Head of Fragrances China and Korea commented, "Expanding our manufacturing capabilities builds on our current creative centre and production facility in Shanghai, as well as the recently acquired drom creative centre and production site in Guangzhou, giving Givaudan an unparalleled footprint in China."

hpicIndia, October 2020

Givaudan, BASF join hands Alibaba's Tmall to push digital innovation

Alibaba Groups's product-innovation arm, Tmall Innovation Centre (TMIC) has teamed up with German chemicals giant BASF and Givaudan, the world's largest producer of fragrances and flavours, to create trend-driven products for the China market. The new consumer-to-supplier initiative, dubbed "T-Lab" allows the two companies to tap into Alibaba's vast pool of consumer insights and creative materials, ingredients and scents that are more likely to trend among shoppers. Other brands can then make use of T-Lab's creations to design their own products and packaging.



As part of the launch, Givaudan showcased product prototypes that drew on key themes and cultural concepts distilled by TMIC, including perfumes and scented hand creams inspired by the enduringly popular Chinese folktale, "Journey to the West."

Commenting on the partnership, Mr. Maurizio Volpi, President, Fragrance and Beauty, Givaudan, said, "Collaborating with Tmall in China is an exciting step forward in our commitment to drive digital innovation across the fragrance industry. The access to Tmall consumer data will allow us to be on top of trends and very quickly create consumer-relevant products for existing and emerging brands in Tmall." As Tmall's inaugural fragrance innovation partner, Givaudan will receive fragrance brief opportunities at the ideation stage, gain access to Tmall's brand ecosystem and tap into data-led capabilities such as the TMIC's online research module.

Givaudan expects the T-Lab partnership to help it pre-empt Chinese consumer trends and shorten end-to-end product development for fine fragrances from 40 weeks to just four weeks.

Mr. Yaling Li, Givaudan's Head of Fragrance China and Korea, commented "We have witnessed the fragrance market in China mature over the last 30 years to reach today's peak demand for locally tailored products. Our T-Lab partnership enables us to pre-empt consumer trends by using behavioural data to innovate new, unique and timely product offerings while supporting key pillars of Givaudan's digital strategy in China".

Chemical weekly June 29, 2021

Givaudan's mobile lab to help generate new fragrance ingredients from field

Swiss manufacturer of flavours, fragrances and active cosmetic ingredients, Givaudan, is breaking new ground in nature-conscious fragrance creation with the introduction of its mobile laboratory.

Branded as *Blossom Lab*, this fully equipped mobile laboratory allows to innovate naturals extraction techniques and craft new qualities of perfumery ingredients directly in the field, from the freshest plants. The *Blossom Lab* is designed from repurposed shipping containers in Grasse, France and will be able to travel by truck or boat for immersive research at

the heart of nature's most precious sites around the world.

"The *Blossom Lab* is an exciting advance in perfumery that brings a functional high-tech laboratory to work in a responsible way with nature's freshest, most unique ingredients directly in the field. We are thrilled to explore the myriad possibilities offered by the innovation, which is fully aligned with our ambition to create sustainable and unparalleled new scents for consumers all around the world to enjoy," said Mr. Maurizio Volpi, President Givaudan Fragrance & Beauty.

The mobile unit builds on Givaudan's 'Naturals at Origin' approach while supporting its *Naturality Platform*, a pioneering approach that enables perfumers and customers to create nature-conscious fragrances. It aims to optimize processes and reduce environmental impacts while enriching the perfumery palette with new sustainable naturals. The *Blossom Lab* will be deployed initially in Grasse before carrying out innovation expeditions to leverage Givaudan's network of 'Naturals at Origin' from Egypt to Sulawesi, Indonesia.

Chemical weekly April 27, 2021

Givaudan launches tool to help perfumers assess environmental impact of ingredients

Swiss fragrance giant, Givaudan has announced the launch of its *Naturality Index* as it seeks to support nature-conscious fragrance creation.

The company said the *Naturality* index is a "one-of-a-kind assessment tool" that allows perfumers to factor in the environmental impact of their ingredient selection bringing a new differentiating dimension to the creative process. The tool assesses ingredients and formulas against a number of measures that affect fragrance sustainability such as biodegradability, renewability and sourcing. The index covers four pillars: Environmental positive impact, Ingredient origin, Energy efficiency, and Responsible sourcing. These measures align with

Givaudan's nature goals and are also in line with customers searching for more long-term sustainable solutions for their brands.

Mr. Maurizio Volpi, President of Givaudan's Fragrance & Beauty said, "With consumers increasingly looking for creative yet sustainable fragrances, our *Naturality index* is an invaluable tool to deliver nature-conscious fragrance creation. It provides our perfumers with a new dimension to aid the creative process, and offers our customers a solid and unique sustainability measurement of their olfactive solutions".

The *Naturality Index* is part of the overarching Naturally Platform, a massive undertaking initiated some years ago to generate a unique way to utilize a nature-conscious palette as well as a vision for future sustainable creations that bring a positive impact for consumers.

Chemical weekly, March 30, 2021.

Firmenich's novel extraction technology help creates natural ingredients from unconventional biomass

Firmenich, the world's largest privately-owned fragrance and taste company, has unveiled the *Firgood* collection, a new range of 100% natural extracts obtained by a sustainable proprietary extraction technology. This patented process enables the processing of biomass never previously used in the industry for natural ingredients. Part of the *Naturals Together* platform. *Firgood* extracts complement Firmenich's palette of natural perfumery and taste ingredients with unique new naturals.

"This advanced and highly sustainable technology is a revolution for natural ingredients in our industry. It opens new creative territories, unexplored until now," said Mr. Gilbert Ghostine, CEO of the Swiss firm. "The development of a brand-new industrial facility in our naturals Centre of Excellence in Grasse reinforces our continued leadership in naturals," he added. The *Firgood* technology uses only the water that is an inherent part of the biomass cells. Once

warmed up by electromagnetic vibration, the water carries the odorant components, to yield the final pure extract.

"More environmentally friendly than any other extraction method, this technology is the culmination of advances in sustainable extraction. Solvent-free, dry biomasses only require water humidification, while low energy consumption is an added benefit of the process. In addition, the waste produced is clean and can easily be upcycled, reinforcing the sustainable value of this pure extraction," the company informed in a press note.

"We have successfully scaled-up from lab and pilot to two industrial lines, offering production capacity that ranges from hundreds of kilograms to several tons of primary extracts," said Mr. Boet Brinkgreve, President, Ingredients. "Today, a pear *Firgood*, a ginger *Firgood* and a green bell pepper *Firgood* are part of the Firmenich creative perfumery palette, and in the coming months we will introduce 10 additional ingredients followed by a rich pipeline of future launches for both perfumery and taste applications," he revealed.

Chemical Weekly June 29, 2021

Firmenich takes stake in Essential Labs, a B2B e-commerce supplier of fragrance solutions

Firmenich, a Switzerland based privately-owned fragrance and taste company, has entered into a strategic partnership with Essential Labs, a leading B2B supplier of fragrance solutions supporting entrepreneurial, independent businesses in the premium home segment. As part of this partnership, Firmenich will acquire a significant non-controlling interest in Essential Labs.

"This partnership is an exciting step for Firmenich that will enable us to bring our unique capabilities in science and our leading palette of natural, renewable and sustainable ingredients to the dynamic community of entrepreneurs in the United States and beyond," said Firmenich CEO, Mr. Gilbert Ghostine.

With an established customer base of thousands of smaller independent brands across the US, Essential Labs has developed a digitally native business to nurture entrepreneurial brand builders who operate at the cutting edge of consumer preference. Essential Labs has built an interactive community where entrepreneurs can learn and be inspired by convenient access to a complete-solutions offering. Through the partnership, Firmenich will be able to bring its innovation capabilities to a broader range of emerging, growth brands who are excited to build a more sustainable, renewable and natural future for fragrances.

Chemical Weekly June 8, 2021

Firmenich opens biotech and naturals pilot plant in Geneva :

Firmenich, the Switzerland-based privately-owned perfume and taste company, has opened a new biotechnology and naturals pilot plant and laboratory in Geneva. The facility is integrated into the Group's flagship ingredients production site at La Plaine, Geneva.



"Benefiting from the latest digital technology, the facility opens a new era for the development of ingredients and clean label solutions by providing faster speed-to-market and greater flexibility for customer collaboration." The company said in a press note.

"With our new biotechnology pilot plant closely connected with the ingredients production site, Firmenich provides integrated biotech development all the way down to the finished product, without any gaps," explained Ms. Genevieve Berger, Chief Research Officer, Firmenich.

"Our new pilot plant provides greater flexibility to respond to customer needs in product development. Capable of handling multiple projects simultaneously, it also enables small scale production of trial batches for formulation or testing and regulatory validation," added Ms. Sarah Reisinger, Senior Vice President Research Operations, Firmenich.

According to the company, the pilot plant will enable the development of efficient and high quality production processes for new ingredients for both perfumery and flavours, through bio technology or natural extraction. Harnessing digital technology for increased automation, the pilot plant can move from single to continuous batch process, increasing efficiency, speed and reducing the use of raw materials.

In keeping with Firmenich's track record in sustainability, the new pilot plant benefits from efficient bioreactors, which minimises both the amount of waste produced and energy consumed.

hpicIndia, October 2020

Ice cream cups made from TotalEnergies renewable PP make market debut

The multinational ice cream manufacture Froneri - a joint venture between Nestle and R & R Ice Cream has placed an order with Italian injection molding expert, MPG Manifattura Plastics S.p.A, for 100 million plastic cups made from French Oil & Gas giant. TotalEnergies' 'Ceritifed Renewable 'Polypropylene' for their iconic brand, *Coppa del Nonno* .

This renewable polypropylene (PP) produced from bio-based naphtha is said to offer virgin-like performances with a reduced carbon footprint and is fully recyclable. MPG is the first company in Italy to be certified for the production of rigid plastic food packaging from renewable feedstock.

This value chain partnership combines TotalEnergies' technologies and MPG's plastics con version expertise to meet Froneri's sustainability objectives and contribute to reducing the carbon footprint of food packaging.



polymers from renewable feedstock and meets a strong demand from our customers. The development of this new pathway also contributes to our ambition of producing 30% recycled polymers by 2030,” said Ms. Valerie Goff, Senior Vice President, Polymers at TotalEnergies’.

TotalEnergies’ ‘Certifies Renewable Polymers’ follow ISCC PLUS (International Sustainability and Carbon Certification) scheme that secures the chain of custody and traceability along the value chain from feedstock to final product.

“This innovative collaboration with MPG and Froneri supports our goal of reaching a leading position in

Chemical Weekly June 29, 2021

Only Best, The Best, All the Best
MANUFACTURER OF AROMA CHEMICALS

P.E.M.E.

P.C.P.A.

Rose Crystal (Ex. Chloral)

Rose Crystal (Ex. Benzaldehyde)

Phenyl Acetic Acid (Tech. Grade)

Phenyl Acetic Acid (Perfumery Grade)

Aldehyde C-16 (2 peak)

Benzyl Acetate FFC

For your regular requirement please contact manufacturer

TRIO FLAVOURS & FRAGRANCE INDUSTRIES

Plot No 138, G.I.D.C. Estate, “Rohit Chemical” Compound, Nr. Paras Pharma,
Kalol (N.Guj) - 382 725, Dist : Gandhinagar

Cell No : 90826 35400, 93772 53586, 97144 23955;

Email : specialityorganic@yahoo.com



MINT OIL & ISOLATES

Peppermint Oil (Ex Mentha Piperita Oil)
Peppermint Oil (Ex Mentha Arvensis Oil)
Peppermint Oil Blends (Arvensis + Piperita)
Peppermint Oil (ex DMO)
D M O
Menthones (70/28, 80/20, 90/10 &95/5)
Mint Terpenes
Menthyl Acetate
Spearmint Oil
L-Limonene (60 to 98%)
L-Carvone 70 to 99%
L-Menthol (Flake, Rice & Bold Crystals)
CIS-3-Hexanol Natural 95% & 98%
CIS-3-Hexenyl Acetate Natural 98%
CIS-3-Hexenyl Butyrate
CIS-3-Hexenyl Caproate
CIS-3-Hexenyl Caprylate
CIS-3-Hexenyl Benzoate
CIS-3-Hexenyl Valerate
CIS-3-Hexenyl Iso-Valerate
CIS-3-Hexenyl Salicylate



CLOVE OIL & ISOLATES

Clove Leaf Oil 70 to 90%
Clove Bud Oil
Eugenol 99% & 99.5%
Iso Eugenol
Methyl Eugenol
Methyl Iso Eugenol



Di Hydro Eugenol
Eugenol Acetate
Iso Eugenol Acetate
Caryophyllene 65%-95%
Caryophyllene Acetate



GEM AROMATICS PVT. LTD

ESSENTIAL OILS AND ISOLATES

Citronella Oil-Indian
Citronella Oil-Java
Lemon Grass Oil
Palmrosa Oil
Cinnamon Leaf Oil
Cinnamon Bark Oil
Cumin Seed Oil
Linalool Natural
Frankincense Oil
Pomegranate Seed Oil

Celery Seed Oil
Carrot Seed Oil
Turmeric Oil
Linalyl Acetate Ex-Mentha Citrata
Geranyl Acetate Ex-Palmrosa
Geranyl Butyrate
Holy Basil Oil
Basil Oil
Anethole
Estragole



Aroma/Organic Chemicals

WS-03 (Cooling Agent), WS-23, Cuelure



Eucalyptus Oil

Eucalyptus Globulus Oil (60% to 90%)
Eucalyptol

HEAD OFFICE:

A/410, Kailash Complex, Powai Vikhroli Link Rd, Vikhroli (W), Mumbai- 400079. INDIA

Mobile : +9819735599/ 9320035599/ 9320026575. • Email: vparekh@gemaromatics.in | vparekh@gemaromatics.in

Mfg. Unit I : Plot No. 2, 16/4/2, Near Alok Industries, Rakholi, Silvassa-396230 (D & NH), INDIA

Mfg. Unit II : 8/9/10 Khasara No, Village Gathona, Ujhani Budaun Rd, District: Budaun-243639. UP INDIA





ARPAN AROMATICS

WE ARE PLEASED TO OFFER QUALITY PRODUCTS FROM OUR MANUFACTURING DIVISION

iso AMYL ACETATE	GERANYL ACETATE (MIN 98% / 2 PEAK)
iso AMYL BUTYRATE	GERANYL BUTYRATE
iso AMYL PROPIONATE	GERANYL ISO BUTYRATE
iso AMYL SALICYLATE	GERANYL FORMATE
BENZYL BUTYRATE	GERANYL PROPIONATE
BENZYL PROPIONATE	GERANYL ISO VALERATE
CARYOPHYLLENE ACETATE	GERANYL TIGLATE
CINNAMYL ACETATE	GUAIYL ACETATE
CINNAMYL FORMATE	HEXYL ACETATE
cis - 3 - HEXENYL ACETATE	HEXYL BUTYRATE
cis - 3 - HEXENYL BENZOATE	HEXYL ISO BUTYRATE
cis - 3 - HEXENYL BUTYRATE	NERYLACETATE
cis - 3 - HEXENYL ISO BUTYRATE	OCTYL ACETATE (C-8 ALCOHOL)
cis - 3 - HEXENYL CAPROATE	ORANGE OIL FOLDED (5X)
cis - 3 - HEXENYL ISO VALERATE	ORANGE OIL FOLDED (10X)
cis - 3 - HEXENYL PROPIONATE	ORANGE OIL FOLDED (20X)
cis - 3 - HEXENYL PHENYL ACETATE	PATCHOULI OIL (RCO)
cis - 3 - HEXENYL TIGLATE	PATCHOULI OIL (STANDARD)
cis - 3 - HEXENYL 2 METHYL BUTYRATE	PARA CRESYL ACETATE
CITRONELLYL ACETATE	PHENYL ETHYL ACETATE
CITRONELLYL BUTYRATE	PHENYL ETHYL FORMATE
CITRONELLYL CAPROATE	PHENYL ETHYL BUTYRATE
CITRONELLYL FORMATE	PHENYL ETHYL BENZOATE
CITRONELLYL ISO BUTYRATE	PHENYL ETHYL ISO BUTYRATE
CITRONELLYL PROPIONATE	PHENYL ETHYL TIGLATE
CITRONELLYL ISO VALERATE	RHODINOL (SYNTHETIC)
CITRONELLYL TIGLATE	RHODINOL (EX GERANIUM)
CLOVE OIL RECTIFIED 85%	RHODINYL ACETATE
CLOVE OIL PG	SANDAL BOOSTER
CLOVE TERPENES	TERPENYL ACETATE
DIHYDRO MYRCENYL ACETATE	TRANS 3 HEXENYL ACETATE
DMO ACETATE	TRANS 3 HEXENYL BENZOATE
EUGENOL	VETIVERYL ACETATE (ECO)
EUGENYL ACETATE	VETIVERYL ACETATE (ex HAITI)
FDL - 40	WOODAMBER

14, Maskati Market, Kalupur, Ahmedabad - 380002.
Tel. : +91 79 2217 3788 Telefax : +91 79 2216 5160.
web : www.arpanaromatics.com
e-mail : arpanaromatics@yahoo.co.in
e-mail : info@arpanaromatics.com



ARPAN AROMATICS

WE ARE PLEASED TO OFFER QUALITY PRODUCTS FROM OUR MANUFACTURING DIVISION

RESINOIDS & CONCRETES

AMBERGRIS SOLID
BENZOIN CONCRETE
BENZOIN SIAM CONCRETE
CIVET CRYSTAL
RESINOID BENZOIN
RESINOID BENZOIN ECO
RESINOID ELEMI
RESINOID LABDANUM
RESINOID OLIBANUM

SCHIFF BASES

AURANTINE	(HYDROXY CITRONELLAL)
CINNAMON TINE	(CINNAMIC ALDEHYDE)
CITRO TINE	(CITRONELLAL)
CIVE TINE	(SKATOLE)
COCONUT SCHIFF	(ALD C-18)
FLORO TINE	(ALDEHYDE C - 12 MNA)
HEXA TINE	(HCA)
HYCINTH TINE	(PHENYL ACETALDEHYDE 50%)
INDOLENE	(INDOLE)
JASMO TINE	(ALPHA AMYL CINNAMIC ALD)
UNDECA TINE	(ALD C – 11)

-: CONTACT :-

14, Maskati Market, Kalupur, Ahmedabad - 380002.
Tel. : +91 79 2217 3788 Telefax : +91 79 2216 5160.
web : www.arpanaromatics.com
e-mail : arpanaromatics@yahoo.co.in
e-mail : info@arpanaromatics.com

Range of Exciting Flavours for All Food Products



Sonarome offers an exciting range of flavours for bakery products, candy & chewing gum, beverages & snack foods and ethnic Indian flavours like flavoured milk, smoothies, buttermilk, sweet lassi, butter, paneer, ice-creams, yogurts, rasmalai and dairy sweets.

40
YEARS
OF DELIVERING
ON COMMITMENTS


sonarome
India's No.1 flavour company

Sonarome Private Limited
One Sonarome Way
KIADB Industrial Area, Doddaballapur
Bangalore 561 203, India
FSSC 22000 & GMP CERTIFIED COMPANY

T +91 80 68902200
F +91 80 68902299
sonarome@sonarome.com
www.sonarome.com

The Fine Fragrances Boutique

Explore • Experience • Express

Discover # [VeraspicexIFF](#)

Explore
over 300 top
quality ingredients

Experience
their odor profiles
in accords

Express
in your own creations
with technical support from us

iff

International Flavors & Fragrances Inc.

Authorised Distributor

Lmr

NATURALS BY IFF

Sole Authorised Distributor

symrise 

Authorised Distributor of terpene based ingredients
Linalool, Linalyl Acetate, Geraniol & Nerolex



FINE FRAGRANCES PVT. LTD.

Leading Distributors and Suppliers of High Quality Natural & Synthetic Perfumery & Flavor Ingredients,
Reconstitutes and Fragrance compounds.

119, Jolly Maker Chamber No. 2, 11 th Floor, Nariman Point, Mumbai 400 021, INDIA
Tel.: + 91 22 61454000, Email : sales@finefrag.com, web : www.finefrag.com

Ingredient solutions
for a better world

The Fine Fragrances Boutique

Explore • Experience • Express

Visit us to explore our wide range of IFF fragrance ingredients

iff

AMBER

- AMBER XTREME
- AMBERMOR-EX
- AMBRINOL 95
- BORNAFIX
- CASHMERAN
- GRISALVA
- TRISAMBER

CITRUS

- CLONAL
- DIMYRCETOL
- GERALDEHYDE
- HERBALIME (ABBAROME)
- KHUSINIL
- LIMOXAL
- MYRCENOL SUPER
- BERGAMAL
- MYRCENYL ACETATE
- ORANGE FLOWER ETHER

FRUITY

- CASSIFFIX
- FRUCTONE
- DELTA DAMASCON
- FRAISTONE
- HEXALON
- NECTARATE
- PRENYL ACETATE
- STRAWBERIFF

GREEN

- GALBASCON
- ISO CYCLO CITRAL
- LIFFAROME
- MELOZONE
- MONTAVERDI
- SYVERTAL
- TRIPLAL
- VERTOLIFF

HERBAL

- APO PATCHONE
- CANTHOXAL TOCO
- FLEURANIL
- ISO BUTYL QUINOLENE (IBQ)
- OCIMENE
- HERBAC

MUSK

- APPLELIDE
- CELESTOLIDE
- EDENOLIDE
- GALAXOLIDE 50 DEP
- AMBRETTOLIDE
- MUSCEMOR
- GALAXOLIDE UNDILUTED
- ZENOLIDE

FLORAL

- ACALEA
- AQUAFLOA
- CYCLEMAX
- DAMASCOL
- DIOLA
- FLEURAMONE
- FLORAL SUPER
- FLORALOZONE
- HELIONAL
- HYACINTH BODY
- HYACINTH BODY NO.3
- JASMAL
- GELSONE
- JESSEMAL
- KHARISMAL S
- LYRAL
- CYCLOHEXYL ETHYL ACETATE
- MELAFLEUR
- MUGUET ALDEHYDE 50
- PEOMOSA
- PHENAFLEUR
- PHENOXANOL
- ROSETHYL
- VIOLIFF
- RESEDA BODY
- ROSALVA

WOODY

- BACDANOL TOCO
- CEDRAMBER
- CEDRYL ACETATE
- ISO E SUPER
- KARMAWOOD
- KOAVONE
- KOHINOOL
- APHERMATE
- PICONIA
- ORIVONE
- SANJINOL TOCO
- TIMBERSILK
- TOBACOROL
- TRIMOFIX
- VERTOFIX COEUR
- VERAMOSS

FRESH

- INTEREVEN ALDEHYDE
- PINO ACETALDEHYDE
- PRECYCLEMONE B
- MARITIMA
- MYRAC ALDEHYDE

POWDERY

- BICYCLONONALACTONE

SPICY

- PRISMANTOL
- ISO CYCLO GERANIOL
- VERASPICE

LEATHER

- SUEFEDRAL LT



FINE FRAGRANCES PVT. LTD.

Leading Distributors and Suppliers of High Quality Natural & Synthetic Perfumery & Flavor Ingredients, Reconstitutes and Fragrance compounds.

119, Jolly Maker Chamber No. 2, 11 th Floor, Nariman Point, Mumbai 400 021, INDIA
Tel.: + 91 22 61454000, Email : sales@finefrag.com, web : www.finefrag.com



The Fine Fragrances Boutique

Explore • Experience • Express

Discover # [VeraspiceIFF](#)



SPICY

Clove, Floral, Herbal



From the heart of IFF R&D, meet Veraspice!

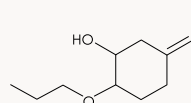
Veraspice is a new ingredient release. This innovative fragrance molecule is multi-faceted with great performance and stability – its balsamic spice, a smooth tobacco leaf, dry woody leather and sweet vanilla that blends well with floral themes. It's warm, sophisticated, and true.

USEFUL IN CREATING - Spicy florals such as lily, carnation, tuberose and ylang, adding naturalness to rose and muguet

VERASPICE

(4Z,4E)-4-ethylidene-2-propoxycyclohexanol and (5Z,5E)-5-ethylidene-2-propoxycyclohexanol (isomers)

IPC NUMBER 100081



Ultimately

NOTE IMPACT

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

OLFACTORY DESCRIPTION

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

CHEMICAL FORMULA

$C_{11}H_{20}O_2$

OLFACTORY TERRITORY

Mystical

CAS NUMBER

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

REACH REGISTRATION

VISUAL DESCRIPTION

Colorless to pale yellow liquid

GC SUMMARY

Sum isomers min. 97%

FLASH POINT

94°C

MOLECULAR WEIGHT

184.0

TYPICAL USE LEVEL

Traces to 1%

VAPOR PRESSURE

0.011949 mm Hg @ 23° C

LOG P

2.50

SUBSTANTIVITY

> 48 hours

PRODUCT

Fine Fragrance

PERFORMANCE

Very Good

STABILITY

Good

Shampoo

Good

Good

AP Deo

Good

Good

Soap

Very Good

Good

Liquid Detergent

Good

Good

Powder Detergent

Good

Good

Fabric Conditioner

Good

Very Good

Candles

Good

Good

Acid Cleaner

Good

Good

Bleach

Poor

Poor



FINE FRAGRANCES PVT. LTD.

Leading Distributors and Suppliers of High Quality Natural & Synthetic Perfumery & Flavor Ingredients, Reconstitutes and Fragrance compounds.

119, Jolly Maker Chamber No. 2, 11 th Floor, Nariman Point, Mumbai 400 021, INDIA

Tel.: + 91 22 61454000, Email : sales@finefrag.com, web : www.finefrag.com



The Fine Fragrances Boutique

Explore • Experience • Express

Discover Pure, Natural & Sustainable ingredients of LMR naturals by IFF

MUSK

- AMBRETTE ABS*

FLORAL

- BROOM ABS ITALY LMR FRG *
- CASSIE ABS EGYPT LMR *
- GERANIUM OIL EGYPT *
- GERANIUM OIL EGYPT FOR LIFE *
- GERANIUM OIL EGYPT ORG LMR
- GERANIUM OIL CHINA *
- GERANIUM OIL MADAGASCAR *
- JASMINE ABS EGYPT *
- JASMINE ABS INDIA *
- JASMINE ABS SAMBAC INDIA *
- MAGNOLIA FLOWER OIL
- MIMOSA ABS FRANCE

GREEN

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

SPICY

- CARDAMOM GUATEMALA EXT Co2 *
- CARDAMOM OIL GUATEMALA
- CINNAMON BARK OIL MADAGASCAR LMR *
- CINNAMON BARK OIL MADAGASCAR ORG LMR *
- CINNAMON BARK OIL CEYLON LMR
- CINNAMON BARK ESSENTIAL MADAGASCAR *

WOODY

- COPAIBA BALSAM OIL BLO
- HEALINGWOOD BLO

AMBER

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

BALSAMIC

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

- ROSE ABS BULGARIAN LMR *
- MAGNOLIA LEAF OIL
- MIMOSA ABS INDIA LMR
- NARCISSE ABS FRENCH
- NEROLI OIL TUNISIA
- ORANGE FLOWER ABS TUNISIA *
- ORANGE FLOWER WATER ABS TUNISIA *
- ORRIS 8% NAT 2942C *
- ORRIS NATURAL 15% 4095C *
- ORRIS RESOID *
- OSMANTHUS ABS LMR *
- PETITGRAIN BIGDE OIL TUNISIA *
- PETITGRAIN CITRONNIER OIL *
- PETITGRAIN OIL PARAGUAY T'LESS

HERBAL

- ARMOISE OIL PURE
- BASIL OIL VIETNAM LMR *
- CHAMOMILE OIL ROMAN *
- CYPRESS OIL
- CHAMOMILE OIL WILD LMR
- CHAMOMILE OIL BLUE LMR
- HAY ABS
- IMMORTELLE ABS BALKANS LMR *
- LAVENDER ABS H *
- LAVENDER OIL BULGARIA *

- CORIANDER SEED OIL *
- GINGER OIL INDIA *
- GINGER OIL FRESH MADAGASCAR *
- GINGER OIL FRESH MADAGASCAR ORG
- JUNIPERBERRY OIL BALKANS
- JUNIPERBERRY OIL BALKANS RECT BHT

- MOSS OAK ABS IFRA43
- MOSS TREE ABS MD IMP IFRA 43
- OAKWOOD CO2 EXTRACT 60% TEC
- PATCHOULI OIL LIGHT BLO
- PATCHOULI OIL INDONESIA IRON FREE
- PATCHOULI OIL INDONESIA MD

GOURMAND

- PERU BALSAM OIL
- TONKA BEAN ABS
- VANILLA BOURBON CO2 EXTRACT 35% TEC

FRUITY

- BLACKCURRANT BUD ABS MD 37% TEC LMR FLG
- BLACKCURRANT BUDS ABS *
- BRAN ABS *
- BRAN RESINOID LMR
- DAVANA OIL SFO *

- ROSE CENTIFOLIA ABS TUNISIA LMR
- ROSE ABS BULG LOW METH EUG LMR
- ROSE ABS TURKISH *
- ROSE ABS ISPARTA FOR LIFE TURKISH
- ROSE ESSENTIAL LMR FOR LIFE *
- ROSE ESSENTIAL LOW ME FOR LIFE
- ROSE OIL TURKISH *
- ROSE OIL BULGARIA *
- ROSE ULTIMATE EXTRACT LMR FOR LIFE
- TAGETE OIL MADAGASCAR *
- TUBEROSE ABS INDIA
- YLANG YLANG OIL COMPLETE MADAGASCAR *
- YLANG OIL I MADAGASCAR
- YLANG OIL III MADAGASCAR

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

- MARJORAM OIL EGYPT LMR *
- PEPPER OIL BLACK MADAGASCAR *
- PEPPER SICHUAN ABS CO2 EXT LMR *
- PEPPER PINK Co2 *
- SCHINUS MOLLE OIL SFO *
- SCHINUS MOLLE EXT Co2 *
- TURMERIC ROOT ULTIMATE EXTRACT MD LMR

- PATCHOULI HEART N3 *
- PATCHOULI SESQUITERPENS
- SANDALWOOD OIL SPICATUM(AU)LMR
- SANDALWOOD OIL NEW CALEDONIA LMR
- VETIVER OIL HAITI FOR LIFE *
- VETIVER OIL JAVA LMR *



FINE FRAGRANCES PVT. LTD.

Leading Distributors and Suppliers of High Quality Natural & Synthetic Perfumery & Flavor Ingredients, Reconstitutes and Fragrance compounds.

119, Jolly Maker Chamber No. 2, 11 th Floor, Nariman Point, Mumbai 400 021, INDIA
Tel.: + 91 22 61454000, Email : sales@finefrag.com, web : www.finefrag.com

* Available in flavor grade



Sole Distributor for ingredients in India



The Fine Fragrances Boutique

Explore • Experience • Express

Discover Pure, Natural & Sustainable ingredients from IFF LMR

LAVANDIN ABSOLUTE ORGANIC ENFLEURAGE 2.0

HERBAL, HERBACEOUS, FLORAL

SCIENCE-BASED HOLISTIC WELLNESS SOLUTIONS

MOOD

IFF BRAINEMOTIONS™ COLLECTION



EMOTIONAL & COGNITIVE STATES
SCIENCE BASED

SKIN

LMR ACTIVE ESSENCES COLLECTION



SKINCARE & EMOTIONAL WELL-BEING
PROPERTIES
SCIENCE BASED

HYGIENE

LMR HYGIENE ESSENCES COLLECTION



HYGIENE, PRODUCT PRESERVATION &
BODY MALODOR CONTROL
SCIENCE BASED

Lmr
NATURALS
BY IFF

LMR Active Essences COLLECTION

ACTIVE AROMATIC INGREDIENTS
FOR SKINCARE ACTIVITY

POLLUTION PROTECTION

- CYPRESS ABS ULTIMATE™ *
- YLANG YLANG ABS FOR LIFE

ANTIOXIDANT

- NARCISSE ABS FRANCE
- IMMORTELLE OIL BALKANS
- CYPRESS ABS ULTIMATE™ *

SKIN SOOTHING

- YLANG YLANG ABS FOR LIFE
- PEPPER SICHUAN ABS CO2 EXTRACT
- LAVANDIN ABS ENFLEURAGE 2.0 ORG
- NUTMEG OIL LOW SMI *
- GINGER OIL FRESH MADAGASCAR
- IMMORTELLE OIL BALKANS
- PEPPER OIL BLACK MADAGASCAR

SKIN TONE

- GINGER OIL FRESH MADAGASCAR
- JUNIPER BERRY OIL
- YLANG YLANG ABS FOR LIFE

SKIN AGEING

- YLANG YLANG ABS FOR LIFE

Lmr
NATURALS
BY IFF

IFF BRAINEMOTIONS™ NAUTRAL COLLECTION

A REVOLUTIONARY APPROACH TO THE FUNCTIONAL
EFFECTS OF NATURAL EXTRACTS

ENERGY

- Geranium Oil Madagascar LMR CSM
- Immortelle Oil Balkan LMR CSM
- Rosemary Oil Tunisia LMR CSM

HAPPINESS

- Geranium Oil Madagascar LMR CSM
- Immortelle Oil Balkan LMR CSM
- Rosemary Oil Tunisia LMR CSM

SEDUCTION

- Carrot Seed Oil LMR
- Juniper Berry Oil Balkan LMR CSM
- Ylang Ylang Oil Complete Madag LMR CSM

ALERTNESS

- Basil Oil Verbena LMR
- Cinnamon Bark Oil Madagascar LMR
- Patchouli Oil Light BLO CSM

SELF ESTEEM

- Cypress Oil LMR CSM
- Pepper Oil Black Madag LMR CSM
- Rose Ultimate Extract LMR For Life

LEARNING

- Lavandin Grosso Oil LMR CSM
- Geranium Oil Madagascar LMR CSM
- Carrot Seed Oil LMR

MINDFULNESS

- Ginger Oil Fresh Madagascar LMR CSM
- Vetiver Oil Haiti LMR For Life CSM
- Lavandin abs Enfleurage 2.0 Org LMR CSM

RELAXATION

- Ginger Oil Fresh Madagascar CSM
- Lavender Oil France LMR CSM
- Narcisse Abs French LMR

& Many more ingredients under these categories. Contact us at sales@finefrag.com to learn more



FINE FRAGRANCES PVT. LTD.

Leading Distributors and Suppliers of High Quality Natural & Synthetic Perfumery & Flavor Ingredients, Reconstitutes and Fragrance compounds.

119, Jolly Maker Chamber No. 2, 11 th Floor, Nariman Point, Mumbai 400 021, INDIA
Tel.: + 91 22 61454000, Email : sales@finefrag.com, web : www.finefrag.com

*Conditions apply - Subject to availability

The Fine Fragrances Boutique

Explore • Experience • Express

Explore world class flavor and fragrance ingredients from Symrise

symrise 

- Geraniol Fine
- Nerolex
- Cyclodumal Acetate
- Linalool Coeur
- Linalyl Acetate Coeur
- Tetrahydrolinalool

Anethole Extra 21/22



- **Odor Profile:** A sweet taste and characteristic of anise-like odor
- **Common Uses:** Used in a wide variety of flavors and fragrances

Carvone-L



- **Odor Profile:** A refreshingly cool, minty odor and taste
- **Common Uses:** Used extensively in flavor oils such as spearmint, but is also used in spice and floral fragrances

Symcool® WS-3



- **Profile:** Flavorless and odorless. Cools mainly the roof of the mouth, back of the mouth and the back of the tongue
- **Common Uses:** Chewing Gum, Confectionery, Oral Care Flavors

Symcool® WS-5



- **Profile:** Flavorless and odorless. Cools mainly the roof of the mouth and throat.
- **Common Uses:** Chewing Gum, Confectionery, Oral Care Flavors

Symcool® WS-23



- **Profile:** Flavorless and odorless. Cools mainly the front of the tongue and front of the mouth.
- **Common Uses:** Chewing Gum, Confectionery, Oral Care Flavors

Symcool® WS-12



- **Profile:** Flavorless and odorless. Cools mainly on the top of the tongue.
- **Common Uses:** Chewing Gum and Confectionery Flavors



FINE FRAGRANCES PVT. LTD.

Leading Distributors and Suppliers of High Quality Natural & Synthetic Perfumery & Flavor Ingredients, Reconstitutes and Fragrance compounds.

119, Jolly Maker Chamber No. 2, 11 th Floor, Nariman Point, Mumbai 400 021, INDIA
Tel.: + 91 22 61454000, Email : sales@finefrag.com, web : www.finefrag.com

The Fine Fragrances Boutique

Explore • Experience • Express

Presenting 100 % Pure & Natural Ingredients

Absolutes, Resinoides, Essential Oils



AMBER

- LABDANUM ABSOLUTE
- LABDANUM ABSOLUTE EXTRA
- LABDANUM RESINOID PURE

GREEN

- GALBANUM ABSOLUTE
- GALBANUM OIL
- GALBANUM RESINOID PURE

MOSSY

- OAKMOSS ABSOLUTE

WOODY

- COPAIVA BALSAM ABSOLUTE
- COPAIVA BALSAM RESINOID PURE
- OLIBANUM OIL

BALSAMIC

- BENZOIN ABSOLUTE
- BENZOIN RESINOID PURE
- MYRRH ABSOLUTE
- MYRRH RESINOID PURE
- OLIBANUM RESINOID PURE
- OPOPONAX ABSOLUTE

- PERU BALSAM ABSOLUTE
- PERU BALSAM RESINOID PURE
- STYRAX ABSOLUTE
- STYRAX RESINOID PURE
- TOLU BALSAM ABSOLUTE
- TOLU BALSAM RESINOID PURE



Discover a range of high quality Natural Identical Bases

RECONSTITUTES

AMBER

- AMBER ACCORD ECO™
- AMBER ACCORD SUPER™
- LABDANUM ABS ALT ECO™
- LABDANUM ABS ALT SUPER™
- LABDANUM ABS POURABLE ECO™
- LABDANUM ACCORD SUPER™
- LABDANUM ACCORD ECO™

ANIMALIC

- CIVET CRYSTALS ACCORD SUPER™

GREEN

- GALBANUM ALT ECO™
- GALBANUM ALT SUPER™

BALSAMIC

- BENZOIN ABS ALT ECO™
- BENZOIN ABS ALT SUPER™
- CISTUS ABS ALT ECO™
- COPAIVA BALSAM ALT SUPER™
- OPOPONAX ALT SUPER™
- PERU BALSAM RES ALT SUPER™
- PERU BALSAM ACCORD SUPER™
- STYRAX ALT ECO™
- STYRAX ALT SUPER™
- STYRAX ACCORD ECO
- TOLU BALSAM ALT SUPER™
- TOLU BALSAM ALT ECO™
- OLIBANUM ALT ECO™

CITRUS

- BERGAMOT ALT ECO™
- BERGAMOT ALT SUPER™
- LEMON OIL ALT ECO™
- LEMON OIL ALT SUPER™

WOODY

- COSTUS ALT SUPER™
- OLIBANUM ALT ECO™
- PATCHOULI OIL ALT SUPER™
- SANDALWOOD OIL ALT ECO™
- VETIVERT OIL ALT SUPER

SPICY

- PIMENTOBERRY OIL ALT SUPER™

FLORAL

- BOIS DE ROSE ACCORD ECO™
- GERANIUM OIL ALT ECO™
- GERANIUM OIL ACCORD SUPER™
- GERANIUM OIL ALT SUPER™
- GERANIUM OIL ALT ECO™
- LAVANDER ACCORD ECO™
- LAVANDER OIL ALT ECO™
- LAVANDER OIL ALT SUPER™
- LAVANDIN OIL ALT SUPER™
- LAVANDIN OIL ALT ECO™
- PETITGRAIN OIL ACCORD ECO™
- PETITGRAIN ACCORD ECO™
- RHODINOL ALT SUPER™
- RHODINOL ALT ECO™
- YLANG ALT ECO™
- YLANG ALT SUPER™
- YLANG ACCORD ECO™

MOSSY

- OAKMOSS ALT SUPER™
- OAKMOSS ACCORD ALT ECO™
- OAKMOSS ALT ECO™

Herbal

- ELEMI ALT SUPER™
- ROSEMARY OIL ALT ECO™
- ROSEMARY OIL RECON™



FINE FRAGRANCES PVT. LTD.

Leading Distributors and Suppliers of High Quality Natural & Synthetic Perfumery & Flavor Ingredients, Reconstitutes and Fragrance compounds.

119, Jolly Maker Chamber No. 2, 11 th Floor, Nariman Point, Mumbai 400 021, INDIA
Tel.: + 91 22 61454000, Email : sales@finefrag.com, web : www.finefrag.com

SATYAM ENTERPRISES

A PART OF



INDIA'S ONLY EXCLUSIVE INDENTOR AND DISTRIBUTOR FOR



CALABRIAN CITRUS CENTER
CITRUS OILS AND FLORAL PRODUCTS

OUR PRODUCT RANGE

BEWARE OF IMITATION

LEMON OIL STANDARD 4% CITRAL

LEMON TERPENES

BERGOMAT OIL STANDARD

BERGOMAT OIL BERGAPTENE FREE — VARIOUS GRADES

MANDARIN OIL GREEN TYPE

MANDARIN OIL RED PURE

LEMON OIL PURE

LEMON OIL CONC 4X

BERGOMAT OIL PURE

BERGOMAT OIL NATURAL

MANDARINE OIL YELLOW

BITTER ORANGE OIL PURE

NEROLI OIL ITALIAN

ADDRESS YOUR QUERIES TO: -

SATYAM ENTERPRISES

507 NAIN KRUPA BUILDING, 118/122 KAZI SYED STREET,
MASJID BUNDER (WEST) MUMBAI – 400 003, MAHARASHTRA INDIA

TEL: 022 23432526, 23448032 FAX: 02223401805

*Write to us on: thakker_group@outlook.com
FOLLOW US ON: www.thakkergroup.co.in*

What is new

Dhruva Devvanshi

Trainee Perfumer @ European Flavours and Fragrances India.
Blogger and Fragrance Reviewers/ Fragrance writer



Global Fine Fragrance market 2020 report includes extensive market analysis and industry landscape along with SWOT analysis and PESTEL analysis of the important vendors. Fine Fragrance industry report covers the prospects in the forecast period of 2020-2027 and the scenario.

The Fine Fragrance report includes business distributions of leading players of Coty, LVMH, Christian Dior, Chanel, cK, Estee Lauder, Gucci, and Hermes etc. With thorough market division concerning distinct nations. This report divides the market into some important nations, together with earnings, revenue, global Fine Fragrance market share, and growth rate of this market in these countries across the forecast period 2020-2027. The Fine Fragrance Economy to increase at a Significant Compound Annual Growth Rate Throughout the prediction period 2020-2027 data sources from survey to U.S and U.K market analysis.

As fragrance enthusiasts being touch with a global launch fine fragrances from Indie perfume to niche fragrances. Due to the competitive fragrance market trend and in-depth analysis of the scent then we come to get ready to serve authentic fragrance review to our fragrance lover. Specialized in delivering international to Niche fragrance up to date what is happening around the world giving reviews!! Bestseller of the year!! Talking to sustainability and many more. Every month hundreds of fragrances are launching globally quite deep research practice to give genuine reviews to scent lovers tried my best to cover some of the best fragrance of 2020 launch ever!!!

What's New?

Fine Fragrance Market...

We are at the final stage of year late 2021, till now thousands of fragrances have been launched globally. So it's time to share with you the trends and latest launches in the world of perfumery, Predominate ingredients in a particular scent DNA, the perfume styles and must-known facts about sustainability will be well taken care of. This is good news if you are a fragrance lover to get sun-drenched with fresh new fragrances. The option which I am going to magnetize you could be seriously overwhelming and complement getter!

After encountering a lot of exercise & review, I am coming with the best fragrances released in late 2020. I am thrilled to share with you undeniable facts of prominent notes/ ingredient watch hit in some of sheer invigorating fragrance composition.



Launch Activity...

Global launches to date 2020 about 1195 inclusive of upcoming fragrances not yet launched.

34% female, 17% Male % 49% Unisex fragrance launched globally. 43 new launches in August 2020. The key trend for the fine fragrance market this month is 'eau de parfum' and 'intense' with many brands opting to launch intensified version of their best-selling, or recent launches. In such uncertain times, it certainly is a safe way to recreate a buzz and retain brand loyalty. For example both new and upcoming launches include JPG Le Male Le Parfum, Lancôme Idôle L'Intense, YSL Libre Eau de Parfum Intense, Givenchy L'Interdit Eau de Parfum Intense, Boss Bottled Eau de Parfum, David Beckham Bold Instinct, Dior J'Adore Infinissime and Montblanc Legend Eau de Parfum. In terms of colours, pretty pastel pink hues adorn the female market, but in a stark contrast, black is making a bold comeback across the category featuring in both male and female launches. As the season changes and we start to bid farewell to summer, golden amber tones are beginning to make their presence felt...

I am constantly on the lookout for these changes so that I can bring the latest trends to my fragrance lovers this year. Here is my some inebriate scent review launched late 2020.

Giorgio Armani My Way!!



Giorgio Armani presents the latest chick elegant cute pinkish connotes the notes of Floral and Musk encountered the staggering beauty of the women. This undeniable beauty of modern women desire to

hit living life its own way, I do need to say about modern feminism "My Way is a strong and singular statement, communicating a resolve to follow one's own path.

My Way is a carbon-neutral project emphasizing sustainability and a step towards the brand's goal of achieving carbon neutrality for all its products by 2025. The scent will be fronted by Adria Arjona.

A contemporary floral, the fragrance contains notes of tuberose, a flower Armani adores, and other ingredients sustainably sourced, such as vanilla from Madagascar. Additional notes in the fragrance created with IFF's Carlos Benaïm and Bruno Jovanovic include bergamot from Calabria, Egyptian orange blossom, jasmines, cedar wood and white musk.

Mon Guerlain Bloom of Rose EDP by Guerlain!!



Mon Guerlain is a fragrant manifesto of today's femininity. A multi-faceted woman: strong, free and sensual endorsed by Angelina Jolie. With the Bloom of Rose Eau de Parfum, Mon Guerlain continues its exploration of the multiple facets of the feminine with that of passion. She invites women to share their passions and to assert their fiery personality. My invisible tattoo, my signature, my perfume, My Guerlain.

With the Bloom of Rose Eau de Parfum, Mon Guerlain continues its exploration of the multiple facets of the

feminine with that of passion. She invites women to share their passions and to assert their fiery personality.

"Bloom of Rose Eau de Parfum is a true tribute to the queen of flowers. The rose is expressed without restraint in the form of the essence and absolute, illustrating facets as well fruity as dense and honeyed." Thierry Wasser Guerlain Master Perfumer and Delphine Jelk behind this artistic creation.

Coco Mademoiselle L'Eau Privée!!

After a long-awaited from the reputed house of Chanel Came with its fifth series of Mademoiselle, They launched Coco Mademoiselle L'Eau Privée perfume 2020 edition. The Perfume sign by the in house perfumer Olivier Polge.



Chanel's latest effort is a perfume designed to be worn to bed.

Olivier Polge, the nose of the house of Chanel, signs with the new Eau Privée, a more confidential version of Coco Mademoiselle eau de toilette, among the top-selling fragrances.

Coco Mademoiselle L'Eau Privée has been designed to be sprayed on the skin and hair in the evening before bedtime. For this new perfume ritual, Olivier Polge has softened the woods of this oriental to enhance the freshness of an orange, the sweetness of the floral accord, the absolute of jasmine and rose

petals, and the notes of white musks.

The Coco Mademoiselle it's the first series came onto internationally in the year 2001, later on, Coco Mademoiselle EDT- 2002, Coco Mademoiselle Intense- 2018, Coco Mademoiselle L'Extract- 2012, and Coco Mademoiselle Parfum-2003.

The face of the advertising campaign is British actress Keira Knightley.

Lacoste Match Point for Men 2020!!

Ground-breaking...overwhelming representation from the house of Lacoste....2020. The ball is in your court, it's time to play the Game of Life...To go beyond your limits and push to yourself with Dramatic statement of contrasting green accords.

Breathe with thrilling freshness & invigorating energy EDT Lacoste with an explosive fusion of two contrasting green accords dancing on the Sand court. Let's propel your emotion onto action with its exhilarating freshness.

Let yourself be carried away by its exhilarating freshness. The dazzling green notes of basil allied with the addictive bitterness of gentian compose a breath-taking freshness, while vetiver with vibrant woody notes brings strength and intensity.



Contrasting green energy of Basil & Gentian bitterness flirting with its addictive intense base of Cashmeran and unstoppable power of vetiver.

Match Point is presented in an elegant bottle whose details pay homage to the iconic codes of tennis. Its concave base symbolizes the impact of the match point when the green cover recalls the racquet handle of the legendary René Lacoste, founder of the brand.

Calvin Klein CK Everyone-Genderless scent!!

Ck, This Friendship day!!!! I am honoured to express to all of my lovely friends how much you are valued to me, let me take this opportunity to express that your presence has fantasized my life.

Happy to Have Friends like You!!!!



"Good friends, good books, and a sleepy conscience: this is the ideal life"

On this wonderful occasion I am pleased to share with you guys a wonderful scent preceding in 2020, which is a symbolic representation of first Genderless fragrance on the planet since 1994 of its first arrival.

CK One, the brand's first gender-neutral fragrance, created by Alberto Morillas in 1994, became the scent of the 90s. Synonymous with freedom, rebellion and ambivalence, it captured a generation, selling 20 bottles each second at its peak.

Let's Hit the Smell of Juice...The DNA of the scent celebrates its strong, unbreakable bonding, infinite freedom and self-expression which never ends like

a true friend. Dazzling fresh citrusy notes of Organic orange oil layers over a heart of blue tea accord and a musky base of cedar wood, creating a complex, uplifts the mood.

The glass bottle, which is recyclable once the pump is removed, features an elastic logo band, in homage to classic CALVIN KLEIN UNDERWEAR that can be worn and reused.

This recyclable scent pays the homage, pride and mannerism to our planet to make it safe and healthy.

The nose behind this creation is our legendary master perfumer from the house of Firmenich, Alberto Morillas. (My Great Inspiration of all time).

Black Incense Malaki Chopard scent from Niche house!!

Chopard Black Incense Malaki 2020!!!!

French house Chopard has launched Black Incense Malaki, A new fragrance in the series that began with 2012's Oud Malaki.



Oud Makali fragrance for men launched in 2012 terrifically crafted by the Master perfumer Dominique Ropian form IFF Now it's a darker deeper rebellious concoction come under the direction of legendary Perfumer Alberto Morillas, Well-crafted in Morillas-

Style. The scent is dangerously dazzling around the traditional royal Frankincense which is most ancient and treasured aromatic plants of perfumery.

Black Incense Malaki, the Maison pays tribute to the millenary tradition of royal Frankincense, one of the most ancient and treasured aromatic plants of perfumery. "Black Incense Malaki is a tribute to the noble heritage of incense and its olfactory fascination.

Black Incense Malaki showcases a superb array of 14 natural essences from the world over, among which 5 are from Naturals Together, Firmenich's program of Excellence. This rich and powerful incense elixir blends into layers of shiny spices, with the smell of smoky wood and intensely flavoured oils and resins. Its addictive core, layered with oud and notes of warm leather, evokes royal fragrant ceremonies and enchanting swirls of burning resins.

Black Incense Malaki is a powerful and heady elixir, unfolding in luxurious layers of aromatic, woody, oriental-smoky notes and resins. A new olfactive emotion in which frankincense oil stands out in the heart of the composition.

Paco Rabanne 1 Million Parfum scents of Millionaire

1 Million Parfum Paco Rabanne!!!!!!

1 Million Parfum latest released in March 2020, Wonderful, Intriguing, attractive and wow-worthy. Composition after its first released in 2008. Later on, Brand has given such bohemian representation of 1 Million series.

After its success of 1 Million EDT, The Brand never looked back and had given.....1 Million Absolutely Gold in 2012, 1 Million Intense in 2013, 1 Million Cologne in 2015, 1 Million Lucky in 2018 and now a brand representing its Deeper and potent version of Million Parfums.

1 Million Perfume consistently maintaining its legacy of DNA which is still pulsating onto the heart of Millions of 1 Million Fans! Coming through the journey of 1 Million thought to share my latest clone baby of 1 Million series.



Let's start the overall assessment of the Fragrance DNA. The Liquid is unabashedly unapologetic opens with its fantom notes of Salty-sweet, spicy and creamy all at once, the scent is one that will be loved by men and women. In the opening, you can smell the salty, amber and smooth cashmeran notes but the tuberose is harder to detect. The saltiness carries through to a rich heart of sweet leather which gives this fragrance its sexy and rugged masculinity. As it develops on the skin the solar leather note comes through accompanied by the sticky sweet resinous rose that makes this scent so addictive.

The Parfum version is more mature and representing the dark and bohemian style of modern masculinity.

The scent is well-crafted by the Quentin Bisch (Givaudan) and Christophe Raynaud (Firmenich).

I am constantly trying to give my authentic fragrance reviews! Hope you have enjoyed the article. Would be happy if you share your thoughts on 1 Million Parfum. I'll be glad to hear. Many more new launches are yet to come.

On Ganges's Shores with Varanasi: from the niche house Meo

Fusciuni!!

Meo Fusciuni is an Italian artistic perfume house founded by Meo Fusciuni, a Sicilian herbalist doctor. The nose of the collection is Giuseppe Imprezzabile and its artistic director is Federica Castellani. Released in winter 2020.



Varanasi is the first chapter of a new path, the "Timeless Trilogy".

The Varanasi perfume is inspired by a trip to India lived in 2017 and it tells what India left in my heart, mind and soul.

Varanasi is also the perfume that tells the deep bond of friendship and sharing of the journey, experienced as a unique bond, born among the people who have lived this magical and true experience.

Varanasi has no compromises, I wanted it to be and to tell the visceral emotion that still today that journey transmits to me.

Varanasi is a non-place, sacred and profane, where the encounter between "smells - perfumes" is

contrasting and magnetic; each of the components contains an important and significant aspect of our trip to India.

The magic of this perfume comes from the authentic soul of India, a land of scents and beliefs.

Varanasi is my India, it is our journey to India, a set of fragrant nuances that tell a small part of this place.

When you listen to Varanasi, imagine the water, flowing in the bowels of the earth, touching the roots of everything, nourishing our soul.

Varanasi is an olfactory mandala.

The nose behind this scent is **Giuseppe Imprezzabil**.

Musk Deer Zoologist Perfumes Smells like animal habitat!!

Candian Fragrance house Zoologist debuting the latest animal biology catalogue again but this time fauna goes to seductive & hedonic animals Musk Deer released late November 2020.

Basically, the Owner of Brand is more precised toward a cruelty-free product.



The perfume is created by **Pascal Gaurin of IFF** (New York).

For centuries musk deer have been hunted to near extinction, coveted for their fragrant musk pods. Zoologist respects this majestic creature, masterfully recreating the distinctive scent through a mixture of synthetic musks and natural oud and flowers. The result evokes the animal desire of a lusty musk deer amid the alluring chill of a wintry forest, all captured without a hint of menace."

TOP NOTES

Cardamom, Calamus Oil, Rose

HEART NOTES

Sambac Jasmin Absolute, Patchouli, Cedar wood Atlas, Labdanum Absolute

BASE NOTES

Ambrette Absolute, Orris Absolute, Laos Oud, Australia Sandalwood.

Christian Dior J'Adore Infinissime the infinite eau de parfum.

J'adore eau de parfum is the great women's floral fragrance by Dior.

"J'adore is an extraordinary fragrance because it succeeds in being effortlessly seductive while boasting an original signature.



Now coming summer 2020 Dior come with one more flanker of Jadore.....J'Adore Infinissime!!!!!!! Great

scents well known for its sensualist and mysterious ensemble Juice. Both familiar and surprising, like a sensual sister of J'adore, the solar Eau de parfum, the fragrance becomes endless, as is its trail of infinite character.

Exuberant and carnal, the notes of centifolia rose to entwine with a sambac jasmine accord with an orange facet at the top and a fresh and incisive lily of the valley accord. Sweet and luminous at the same time, the notes of ylang-ylang illuminate the composition of its instant florality.

Refreshed by notes of bergamot and juicy blood orange, the tuberose accord from the country of Grasse whirls the bouquet with its carnal roundness. It gives it an unprecedented volume, a sensual charm and a disturbing tenacity. With its creamy, milky and enveloping notes of sandalwood bring a new woody facet to J'adore.

The golden rings forming the necklace of the J'adore bottle is reinvented in the image of its new infinite fragrance. One by one, the threads of the legendary Maasai necklace are loosened and detached, sliding along the glass in an infinite movement, with the sensuality of a jewel on a woman's skin. Even more precious, this new jewel comes to life and becomes the symbol of liberated femininity.

The nose behind this beautiful creation by Dior is it's in-house Master Perfumer Francois Demachy!!!

Black Orchid Parfum Unisex Scent by Tom Ford!!

After the great success of Tom Ford Black Orchid, the brand again repeated the history but this time it's more potent head-turning and confidence kicker intense juice ever made!

The Tom Ford Black Orchid DNA was born in 2006 is popularly known for its alluring potion of Rich & Black Orchid which is intensified the unforgettable statement for the modern generation. This iconic masterpiece is crafted by Givaudan.



Now in summer 2020, they headed with its more potent version of Black Orchid ever made, Black Orchid Parfum amplifies the iconic sensuality of the original. Its aphrodisiac effect elevates the most elusive and darkest of flowers to powerfully seductive new heights.

Great masterpiece ever made, I am gone into the real depth mystery of its frolicking Juice! How supremely rounded its intoxicating notes of Ylang-Ylang and Black Orchid amplifies the iconic sensuality of the Original. Its aphrodisiac effects elevate the darkest side of the flower meanwhile Black plum dipping onto the Golden rum and Gentle Patchouli revealing a magnified signature of the world genders.

Let's celebrate the impact of seductiveness, it takes you a mystery of Black Orchid darkness.

Decidedly more potent head-turning and confidence Booster! Be warned, It's a loud fragrance not for the shy.

Idole L'Intense Lancome Be the Idole of your Life!!

Idole L'Intense is the new intense Chypre Floral fragrance released in 2020. Lancome first time brings together trio perfumers all overseas from three different continents with the desire to create a new, more powerful and luminous universal addiction.

Lancome Idole first released with its full austerity & melancholy in 2019. Decidedly bopping hit internationally features campaign by actress Zendaya.

A new perfume dedicated to all those women who dream of a success written by their own standards. A new era of pioneering and brave women who live their lives with will and power.

A tribute to all women who lead the way to success and brighten the world with their example. A new story for all those Idôle women, who with their aura, inspire everyone to reveal the true idol they carry inside.



Idole L'Intense reaffirms the Clean & Glow accord of incandescent Rose, the most vibrant chypre and addictive vanilla are the most tactile ingredients.

Throbbing opening of the scent starts with its dangerous chaos and olfactory cacophony between Absolute Rose of Grasse & Decidedly impeccable and delicate scent of Jasmine. A boozy blend of Chypre and buzzing bee honey roaming around the lavish vanilla. Finally Lancome Intense unleashes the addictive magnetism highlighted through exceptional Patchouli aromas reveal its sensual, enveloping nuances joining the cheery inflexions of the Cedar and the creamy richness of a Sandalwood

accord to compose a modern and vibrant trail that is completed by the amber effects of a Bourbon Vanilla infusion from Madagascar.

A new, more vibrant and sensual clean and luminous addiction that allows each woman to uncover her true power and inspire a new era of women.

The Perfumer trilogy (Adriana Medina-Baez, Nadege le Garlantezec & Shyamala Maisondieu) incredibly harmonise the new modern women to unlock her power and inspire a new era of women. Be your own idol! from the house of Givaudan.

Libre Intense Yves Saint Laurent Symbol of Freedom!!



Libre: the new Intense Eau de Parfum...2020 by Yves Saint Laurent. The perfume of an intense woman living her roaring freedom and following her instincts.

The iconic Libre it-bottle reflects a tension between masculinity and femininity, like a straight geometric silhouette embedded in the smoking jacket. The couture extravagance of the oversized Cassandre bent & nailed into the glass, breaking all the codes.

Libre Intense encapsulates a new fragrance shade, between fire and gold. An audaciously masculine signature twisted in its most feminine way by

the desirability of the emblematic Libre bottle. A fragrance like a shout of freedom – the freedom to live everything with excess.

The nose behind this extravagance is Anne Flipo & Carlos Benaim from the house of IFF.

Angel Nova Thierry Mugler Scent Dedicated to modern Super Femininity!!

A new Discovery from the House of Mugler come with a new fragrance for the modern woman who wants to make her dream true.



Angel Nova is a fruity, floral, woody Eau de Parfum that reveals a Super Femininity between pleasure and confidence, which evolves in three facets. The brand describes three peculiar facets of Nova, The WONDER facet- carried by the raspberry overdose, enlightens our dreams and amazes all our senses.

The SUPER facet- around the supernatural rose takes us to the essence of femininity: beauty with a superpower.

The POWER facet- with the wood structure of Akigalawood empowers women to rise higher, where everything seems possible, love, create, dream, finally be yourself.

The new Mugler bottle is refillable.

Guerlain Shalimar Philtre de Parfum Scent of Sensuality!!

French Perfume house Guerlain unveil the new face of Shalime in summer 2020 a new flanker of Shalimar name is Shalimar Philtre de Parfum. Created in house perfumer Thierry Wasser.



In Fragrance history first oriental perfume latter on given so many successive series. The fragrance committed for a true love potion which evolves most intoxicating accents of Oriental vanilla composition moving around Iris and Vanilla.

Shalimar is Cult symbolic representation of True Love devoted to never-ending love.

This year, Guerlain is re-creating the signature of this legendary creation and adding a chapter to its history. In reverence to the fabulous mystery of Shalimar's seduction, in House Perfumer Thierry Wasser has composed a fragrance that exacerbates his inimitable sensuality. More than a perfume, Shalimar Philtre de Parfum is a love potion. For Shalimar Philtre de Parfum, in House perfumer Thierry Wasser took up a major creative challenge: to imagine an outcome that is both unique and faithful to the spirit of the original perfume.

Shalimar Philtre de Parfum opens with a fresh surge of bergamot and lemon, tinged with the aromatic accents of lavender. The floral heart gradually

unfolds on the skin, revealing the majestic beauty of an iris whose jasmine and rose accompany tenderly powdery facets. In the background, patchouli and tolu balm give a bewitching depth to the delicious warmth of an overdose of vanilla, orchestrating an ultra-sensual symphony. It magnifies the velvety facets of the iris and underlines the addictive sweetness of its most emblematic note: vanilla. Taking up the framework of the original perfume and in particular the raw materials that make up the Guerlinade.

Inspired by the passion that unites two beings and overcomes all obstacles, this potion expresses the quintessence of Shalimar's sensuality. With just one drop, its golden-colored juice spreads an irresistible trail of love.

Ingredient Watch...

Going through the journey of popular ingredients which dominating this year, transforming juice DNA its next level of fragrance modernity. Sound surprisingly modern Hmm!! Yes true it is.

Fine fragrance performance has been uneven, featuring holiday-related spikes amid an overall downturn. In the first half of 2020 in the market fragrances resonates the notes of sweet and fruity smells as the life went more indoor the taste of outdoorsy fragrances Citrus aromatic spicy dramatically down. Perfume consumers are talking a lot about fruity notes, less about herbal and citrus scents and more about sustainable ingredients in online reviews and social media engagements.

Some of the finding online consumer data shows reviews and comments- Up to 16% of fruity notes will dominate across the feminine fragrances and trend is also transforming to modern masculinity hitting onto the top scent DNA notes of sharp pear peach and tropical fruits produce hotter sexiest aesthetic to the fragrance. Some of the specific tropical fruits ingredients rising as well. Iris immensely rising in

2020 up to 190%, 148% cherry, 140% mandarin, 133% of Vanilla and 120% of peach. By contrast citrus and herbal scent drastically decline as per consumer taste and changing the uncertain life style pattern 53% of orange, 38% for lavender, 31% for jasmine and 28% for mint.

Fragrance trends like a fashion it is cyclical phenomenon what was in fashion before and ultimately coming back again. Same like in fragrance chapter as well only revolutionizing the existing scent notes. L'Interdit EDP first launched in 2018, L'Interdit EDT version came in 2019 and its intense version 2020 successfully revamped and modernized dominating the notes of cold, sharp and spicy, while the fruity touch of pear and bergamot are not present in the newest variation. The black peppery start leads us to a blend of narcotic tuberose and orange blossom, supported with the piquant and smoky aromas of roasted black sesame. The base is woody and earthy, due to vetiver and patchouli, combined with leathery Madagascar vanilla that ensures an intense oriental layer to highlight the flowers. The year 2020 being the intense flanker of many fragrance houses like wise LIBRE Eau de Parfum Intense is the new, more sensual take on the iconic Eau de Parfum. The signature notes of lavender essence from France and Moroccan orange blossom combine with glowing orchid and warm vanilla to push the perfume to the extreme. It is a long-lasting unique twist on the floral fragrance. Le Male Le Parfum 2020, Not quite an Admiral, but still very admirable! The world's coolest sailor has been upgraded, He is now a Captain! A promotion, so there's commotion, but the team is all-on-board. From port to starboard, everyone cheers. The helm is getting busy, and there's jiving on the decks! Idôle L'Intense 2020, Idole birth first in 2019 and now its potent version glamorize its juice more potent and darker for modern femininity. Mon Guerlain EDP intense, Joy by Dior intense many more flooded turned into intense urban and assertive timeless pieces.

Amazing Sustainable!! Fragrances of 2020

On top lots of conversation around fruity, floral and intense, version notes in the category. Let's be honest and talk about sustainability and natural organic ingredients to keep our planet safe and healthy. According to the market report 2020 the number of planet-friendly fragrances is much higher than 2019. Considering key points like Natural and Organic featured in the sustainable keeping in mind sustainability mostly related to ingredients rather than packaging. In the meantime get researched and found some best released of 100%, natural and organic to slightly cleaner than you have now, plus some picks that are breaking boundaries by providing total fragrance ingredient transparency. If you're in-tune with your own personal impact on the planet, human rights and the future of the air that you breathe, then yes: sustainable perfume is the next vital switch you need to make on your dressing table.

In today's modern beauty landscape, being cruelty-free, socially fair and eco-friendly should be a given for all brands – no exceptions, no excuses. But some are taking it a step further, whether that's by giving back to nature, finding innovative ways to reduce pollution or tangibly transforming communities.



SALT Eau de Parfum by Ellis Brooklyn- Capturing the essence of salty skin, the creamy heat of the sun, and a whiff of tropical florals, SALT is sensual, complex, and soul healing. This fragrance is also vegan and PETA-certified cruelty-free.

CK Everyone Calvin Klein- CK Everyone is the new launch from Calvin Klein bringing a new flanker to the original CK One from 1994.



A clean, green, citrus fragrance, CK Everyone by Calvin Klein is a gender-less scent for today that celebrates the infinite freedom of self-expression. The multifaceted scent for men and women is fresh and provocative. Building on the iconic legacy of CK ONE, this new scent is vegan, made from naturally-derived alcohol and infused with ingredients derived from natural origins, making this Calvin Klein's first 'clean'* fragrance. Organic orange oil layers over a heart of blue tea accord and a musky base of cedarwood, creating a complex, uplifting scent.

The glass bottle, which is recyclable once the pump is removed, features an elastic logo band, in homage to classic Calvin Klein Underwear that can be worn and reused.

My Way Giorgio Armani for Women- My Way is a carbon-neutral project emphasizing sustainability, and a step towards the brand's goal of achieving carbon neutrality for all its products by 2025. The scent will be fronted by Adria Arjona. Nose behind the craftsmanship by IFF's Carlos Benaim and Bruno Jovanovic.



Madie by Rosie Jane- Madie is inspired by surf, sand, and sun. It combines salty notes of sea spray and fresh, floral notes of jasmine and vanilla with a hint of coconut capturing the scent of summer in a bottle.



Midnight Toker by Heretic- A high from a dangerous lover — Warm nutmeg and black pepper lure you into the patchouli heart. Boozy vanilla, heated skin, a smoldering spliff and amber resins will have you coming back for more... much more. A functional fragrance with calming properties.





INDULGENCE OF THE NUTTY FILBERTONE SCENT BY SCENT

Karnataka Aromas and the leaders of the F&F industry shake hands to bring you one of the finest ingredients to help elevate your creativity to inconceivable heights. We present to you Filbertone which is hazelnut in nature with a wide variety of applications in the Flavour and Fragrance industry.

The odour profile of Filbertone can be described as nutty (resembling hazelnut), fruity, fatty, dried fruit like and green. In perfumery, Filbertone can be used to boost the top note because of its highly diffusive properties. It also goes well with citrus and exotic fruit notes. Filbertone gels well with rose and sandalwood.

Useful In

Fragrance: Body Lotion, Shampoo/Shower Gel, Soap, AP Roll-on 15%, Detergent Powder Conc., Cleaner Liquid Citric Acid and Cleaner APC Liquid

Flavours: Nuts, Cocoa, Coffee, Brown, Mint, Citrus, Tropical Fruit and Fruit.

Olfactory

Fruity, Hazelnut, Green, Dried Fruit.



KARNATAKA
AROMAS



Scent perCent FLAVOURING INGREDIENTS FROM WORLD LEADERS.

Karnataka Aromas has been inspiring the world leaders to elevate their business with a range of aromatic ingredients for their flavour and fragrance necessities. The well thought through customized ingredient we offer will refresh and revitalize the sensibilities of the market. Your products are **Scent assured**.



Eternal Pearl

- Ethyl Vanillin
- Vanillin



- Acetoin
- Cuminc Aldehyde
- Ethyl Maltol
- 2 acetyl Pyrazine
- Furaneol
- Maltol
- Vanillin Iso Butyrate

CHINESE

- Aldehyde C-14
- Aldehyde C-18
- Delta Decalactone
- Delta Do Decalactone
- Delta Nonalactone
- Diacetyl
- Ethyl Butyrate
- Ethyl-2-Methyl Butyrate
- Fructose
- Gama Decalactone
- Maple Lactone
- Milk Lactone
- Sulfurol



- Allyl Caproate
- Aldehyde C-12 MNA
- Aldehyde C-18
- Cis-3-Hexanyl Salicylate
- Macrolide® Supra (CPD)
- Rose oxide L
- Filbertone
- Farnesol Special



KARNATAKA
AROMAS



Palate refreshing,
INTRIGUING FLAVORS!

Create truly irresistible edible products with the exquisite and delectable flavor ingredients from Karnataka Aromas that combines taste in a subtle manner for a truly appetizing indulgence.

PRODUCTS

- **Milk Lactone**
- **Maple Lactone**
- **Delta Decalactone**
- **Delta Do Decalactone**
- **Delta Nonalactone**
- **Gama Decalactone**

+91 80 4346 8800 / 8801
aromas@karnatakaaromas.com
karnatakaaromas.com



KARNATAKA
AROMAS
A MARLECHA VENTURE

DI ETHYL PHTHALATE (DEP)

CAS: 84-66-2

TRI ETHYL CITRATE (TEC)


CAS: 77-93-0




INDO-GSP CHEMICALS LLP

ISO 9001, 14001, 22000, OHSAS 18001, GMP, REACH, HACCP, SEDEX Certified

 info@indogsp.com

 +91 72783 65146
+91 98210 83557

 www.indogsp.com



Quality. Service. Reliability.

ARE ESSENTIAL OILS EFFECTIVE AGAINST COVID 19?

Dr. Sitaram Dixit, Chairman – CGSI

COVID-19 the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) respiratory illness started as an epidemic in Dec 19 at Wuhan, China, then rapidly spreading throughout the world as a global pandemic, efficiently transmitting among humans with a high degree of morbidity and mortality. On June 30, 2021, the number of COVID infected individuals globally were 182,981,834, with as many as 3,962,879 deaths, 508/1 M population. Bharat had 30,411,634 individuals infected and 399,475 deaths, 287/1 M population.

Influenza flu, is another infectious respiratory disease caused by three different types of influenza viruses, type A, type B or type C. Type A virus significantly causes flu pandemics in birds, animals and humans, affecting human morbidity and mortality, viz., H1N1, (1918 Spanish flu (40–50 million deaths worldwide); 2009 swine flu; Asian flu of 1957–1958 (ca. 1.5 million deaths worldwide) due to A-H2N2; and the Hong Kong flu in 1968 due to serotype H3N2. Year 2004 bird flu was due to Avian influenza viruses (H5N1). Influenza virus type B, largely affects human hosts. Approved vaccines for preventing SARS-CoV-2 infection (COVID-19), though available today, the demand for potential chemotherapeutic agents to treat infectious respiratory disease, continues to exist. Screening of essential oils against different pathogenic viruses, including influenza and other respiratory viral infections by scientific researchers are common and continuing.

Find below some interesting observations obtained from various scientific research studies evaluating the invitro antiviral effect against influenza type A (H1N1) of some common and well-known commercial essential oils tested in the liquid and vapor phase at a 0.3% concentration after 30 min of exposure.

➤ Cinnamon (*Cinnamomum zeylanicum*) leaf oil with eugenol (75–85%), followed by smaller

amounts of linalool (1.6–8.5%), and benzyl benzoate (0.1–8.3%) displayed 100% inhibition of H1N1 both in the liquid phase and in the vapor phase.

- Bergamot (*Citrus bergamia*) oil that is rich in limonene (23–55%), linalool (2–37%), and linalyl acetate (12–41%), with lesser quantities of β -pinene (max 10%) and γ -terpinene (max 10%) displayed 100% inhibition of H1N1 in the liquid phase and 95% in the vapor phase.
- Lemongrass (*Cymbopogon flexuosus*), with Geranial (48–54%) and neral (29–33%) as major components and other *C. flexuosus*, chemotypes, cultivars, and variants have displayed 100% inhibition of H1N1 in the liquid phase and 90% in the vapor phase.
- Thyme (*Thymus vulgaris*), according to scientific literature, has at least 20 different chemotypes. The “typical” thyme essential oil presents a thymol content of 45% (range 31–50%), with significant concentrations of *p*-cymene (0.1–26.6%, average = 15.6%) and γ -terpinene (max 22.8%, average = 9.3%). In nature several other chemotypes of *T. vulgaris* rich in thymol and/or carvacrol also exists. It displayed 100% inhibition of H1N1 in the liquid phase and 70% in the vapor phase. Incidentally we identify thymol as an anti-influenza agent against influenza type A and parainfluenza type 3 virus.
- Lavender (*Lavandula angustifolia*), essential oil is rich in linalyl acetate (37.0–43.6%), linalool (19.7–39.1%), geraniol (max 9.3%), β -caryophyllene (max 5.1%), terpinen-4-ol (max 14.9%), lavandulyl acetate (max 5.5%), and borneol (max 6.4%). The inhibition for lavender essential oil was 85%. However, in the vapor phase, lavender essential oils displayed inhibition rates of 80%.

- Tea tree (*Melaleuca alternifolia*, Myrtaceae), is composed of terpinen-4-ol (30–48%), γ -terpinene (10–28%), α -terpinene (5–13%), 1,8- cineole (max 15%), terpinolene (1.5–5%), *p*-cymene (0.5–12%), α -pinene (1–6%), and α -terpineol (1.5–8%). Tea tree oil shows 100% inhibition of influenza type A (H1N1) virus at 0.01% concentration and a median inhibitory concentration (IC₅₀) of 6 $\mu\text{g}/\text{mL}$. In addition, 30 min exposure of type A (H1N9) virus to tea tree oil vapor causes 100% inhibition. The tea tree oil components, terpinen-4-ol, terpinolene, and α -terpineol, show anti-influenza virus activity against type A (H1N1), with IC₅₀ values of 25, 12, and 250 $\mu\text{g}/\text{mL}$, respectively. α -Terpinene, γ -terpinene, and *p*-cymene were however inactive.

Avian influenza viruses (H5N1) show both high and low virulence in numerous mammalian species, highlighting the connection between the route of inoculation and virus pathogenicity. Since 2003, the world has seen over 600 documented cases of human infection with H5N1 viruses, with most cases among young, previously healthy individuals.

- The essential oils extracted from Citrus reshni leaves and peel (unripe and ripe fruits) on testing against H5N1 virus by plaque reduction assay shows moderate inhibition of the H5N1 virus at a concentration of 2.5 $\mu\text{L}/\text{mL}$. The main constituents in the leaf oil were Sabinene (40.5%), linalool (23.3%), and terpinen-4-ol (8.3%), while in the case of fruit peel the major essential oils were limonene 82.4%, (unripe fruit) and 91.6% (ripe fruit).
- The essential oil of leaves of *Fortunella margarita* is rich in the sesquiterpenoids β -eudesmol (28.3%), α -muurolene (10.3%), β -gurjunene (10.0%), γ -eudesmol (8.4%), and γ -muurolene (6.6%) while the essential oil extracted from the fruits shows monoterpenoids as the main components, α -terpineol (55.5%), carvone (5.7%), and carveol (5.5%).

Both samples when tested for antiviral activity

against avian influenza (H5N1) virus, reveal that the fruit essential oil was more effective (80% virus inhibition by the MTT (3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide) assay using Madin-Darby canine kidney (MDCK) cells for virus propagation. The IC₅₀ values obtained for the leaf and fruit essential oils were 38.89 and 6.77 $\mu\text{g}/\text{mL}$, respectively.

Dengue fever, a mosquito-borne disease, is due to dengue virus (DENV) which includes four major serotypes (DENV-1, -2, -3, and -4), each one of the serotypes causing a different severity of the disease than others; severe dengue is associated with secondary infections by a different serotype. *Dengue* disease is a major public health problem in developing tropical countries also continuously spreading to newer geographical areas.

- Scientists carried out the assay of two species of Lippia essential oils against four dengue serotypes (DENV-1, DENV-2, DENV-3, DENV-4). The IC₅₀ values for Lippia alba oil, rich in carvone (39.7%), limonene (30.6%), and bicyclosesquiphellandrene (8.9%), were between 0.4 and 32.6 $\mu\text{g}/\text{mL}$. However, the Lippia citrodora essential oil, composed of geranial (18.9%), neral (15.6%), limonene (10.7%), and 1,8-cineole (5.0%), show best activity, with IC₅₀ values varying from 1.9 to 33.7 $\mu\text{g}/\text{mL}$. Researchers did not observe any viral inhibitory effect by addition of the essential oil after virus adsorption; the inhibitory effect of the essential oil seemed to cause direct virus inactivation only before adsorption on the host cell.
- Researchers screened the essential oils of seven aromatic plants from Córdoba, San Luis, and San Juan provinces (Argentina) for cytotoxicity and in vitro inhibitory activity against dengue virus type 2 (DENV-2). *Jungia polita* and *Buddleja cordobensis* essential oils comprised of caryophyllene oxide (9.18%, 32.1%) and β -caryophyllene (8.13%, 16.5%) as the major compounds. However, these oils displayed different IC₅₀ values (86.4 and 39.8 $\mu\text{g}/\text{mL}$, respectively). The other samples were

composed mostly of monoterpenes and displayed lower activity, except *Pectis odorata* oil, which presented limonene (50.2%), neral (27.2%), and geranial (23.6%) as the major compounds and an IC50 value of 39.6 µg/mL.

In addition, the essential oils of *Artemisia mendozana*, rich in camphor (22.4%), artemisole (11.7%), and artemisia alcohol (10.8%); *Gailardia megapotamica* composed of β-pinene (35.5%), spathulenol (10.7%), and germacrene D (6.8%); and *Heterothalamus alienus* characterized by β-pinene (35.5%), spathulenol (10.7%), and germacrene D (6.8%), showed an average IC50 value of 130.63 µg/mL.

Yellow fever virus (YFV), causes yellow fever, historically considered one of the most dangerous infectious diseases. Mosquitoes of the *Haemogogus*, *Sabethes*, and *Aedes* genera transmit YFV to humans. Annually we have reports of about 80,000–200,000 YFV cases worldwide, with a case fatality rate (CFR) ranging from 20–60%.

➤ Essential oils of *Lippia* species, viz., *Lippia origanoides* showing carvacrol (44.0%), thymol (15.0%), and γ-terpinene (10.0%) as the main compounds on testing against yellow fever virus (YFV) in Vero cells displays 100% inhibition at a concentration of 11.1 µg/mL.

The oil of *L. alba* displayed 100% inhibition at a concentration of 100.0 µg/mL according to the same study. Carvone (51.0%), limonene (33.0%), and bicyclosesquiphellandrene (7.0%) were the major compounds. The essential oil of *L. alba* with a chemical composition, carvone (39.7%), limonene (30.6%), and bicyclosesquiphellandrene (8.9%), displayed an IC50 value of 4.3 µg/mL against YFV when tested in Vero cells using the MTT assay. The essential oil of *L. citriodora*, dominated by geranial (18.9%), neral (15.6%), and limonene (10.7%), did not display a statistical difference in comparison to citral, with IC50 values of 19.4 and 17.6 µg/mL, respectively.

Researchers in view of the above activities of several essential oils and essential oil components against

human pathogenic viruses, hypothesized that essential oil components may be potentially useful as antiviral agents against SARS-CoV-2. Therefore, they have screened essential oils, and in addition several individual essential oil components for antiviral activity. In this work, they carried out a molecular docking analysis of the major components of essential oils that exhibit antiviral activity with known SARS-CoV-2 protein targets, finding that apart from antiviral activity, essential oils could provide some relief to COVID-19 symptoms, e.g., linalool, β-caryophyllene, and 1,8-cineole have both anti-inflammatory and antinociceptive activity; menthol, camphor, and thymol have antitussive activities.

A molecular docking analysis was carried out **using 171 essential oil components** with the SARS-CoV-2 main protease (SARS-CoV-2 Mpro), SARS-CoV-2 endoribonucleoase (SARS-CoV-2 Nsp15/NendoU), SARS-CoV-2 ADP-ribose-1"-phosphatase (SARS-CoV-2 ADRP), SARS-CoV-2 RNA-dependent RNA polymerase (SARS-CoV-2 RdRp), the binding domain of the SARS-CoV-2 spike protein (SARS-CoV-2 rS), and human angiotensin-converting enzyme (hACE2). Optimum docking ligands for the SARS-CoV target proteins were (*E, E*)-α-farnesene, (*E*)-β-farnesene, and (*E, E*)-farnesol.

The docking energies were relatively weak, and are unlikely to interact with the virus targets of COVID-19 virus although, we cannot completely rule out the possibility of essential oil components acting synergistically, as a potentiate to other antiviral agents, to provide relief to COVID-19 symptoms.

CONSUMERS BEWARE & NOTE

COVID-19 & Its Impact on 'Reverse Brain Drain'

Reverse brain drain happens when people migrate from a developed country to a lesser one that is developing rapidly i.e., in reverse, and use their better skills acquired overseas and accumulated savings for the progress of in their home country. India has one of the world's largest and successful diasporas,

of expatriate Indians and people of Indian origin. Over the last two decades, people of Indian-origin signify highly skilled (doctors, scientists, engineers, professionals, entrepreneurs) group of locals in every country they live in. As per the Ministry of External Affairs, over 13.6 million Indian nationals live abroad (Feb 2020) with fair distribution of talent across the globe right from traditional hotspots like the US and UK, to ones in Southeast Asia, China, and the Middle East.

Growing opportunities in India, and the adverse impact of COVID-19 shows that returnees have hit the reverse gear. Over the last few years, India's healthcare and life sciences sector has been rapidly developing with increasing investments and a competitive edge in vaccines, generics, etc., offering more opportunities for professional development, growing wealth and increasing quality to life. Global in-house centers (GICs) that evolved over the past two decades show the reliance of multinational companies (MNCs) not just for outsourcing business functions for cost savings, but also for global competencies and moving up the excellence value chain.

India's diverse and huge population is a potentially demanding customer base. Private equity and venture capital is a lucrative springboard in providing growth capital for Indian businesses that in just the last few years, moving from a \$10 billion opportunity to almost \$50 billion in 2019. According to industry experts, PE/VC investments accounted for a remarkable 2% increase in Indian GDP and a bigger boost to the overall economy, with second and third-generation entrepreneurs returning with experience gained from working/studying abroad to profitably run family businesses. Most countries today are facing economic problems, lack of job opportunities, increasing income inequality, immigration issues resulting in Indians with US degrees looking for opportunities back home, in addition to lack include social/cultural life, living closer to parents, retirement and giving back to their motherland. People living abroad are stuck in, "neither here nor there" limbo feeling, given the traditional perception that, life in the host country as 'temporary', although as time passes 'home' in the native country becomes more

distant. Although living temporarily abroad, the lives of one's peers, relatives and friends back home move on too with, families establishing themselves, careers progressing and house mortgages getting paid. Even though now equipped with new skills, experiences and prospects, with repatriation the recent returnee does find him/herself in a situation where they need to find a job, new accommodation and renewal of social ties.

COVID-19 pandemic has disrupted the lives of overseas Indians massively; especially the salaried class with layoffs across sectors, salary cuts and delayed increments leading to senior leaders those who stayed away from India for 8-15 years and are keen on working in India after they return. Retiring NRIs who lived abroad for over 20 years with settled family are not very keen on returning. The returnee Indian workforce wants to move back to India's metros (not necessarily their parent state, indicating their high flexibility and mobility within the nation) due to superior quality of life, educational prospects for children, better connectivity, etc. HR sciences sector must capitalize on this unique capable human capital asset staying overseas by actively attracting and aligning the available opportunities to their motivational expectations in terms of compensation benefits, for a smooth return transition. Most senior leaders prefer working for MNC's or large Indian organizations with a global vision, in business functions, like P&L leadership roles, advisory technical consultants, investment professionals/investor, functional leaders with emerging market, product innovation, global manufacturing and social impact sector for leveraging their global exposure. Companies will need to move beyond their tradition to understand the pros and cons of these candidates so that the partnership with such talents would contribute both to the company's and the country's growth.



Dr. Sitaram Dixit,
Independent Consultant - F & F,
Cosmetics, Personal, Fabric and
Household Care Chemical Industry
www.sitaramdixit.weebly.com,
www.sitaramdixit.bravesites.com,
www.sitaramdixit.yolasite.com,
www.sitaramdixit.2itb.com



ProcessWare
ERP

www.ProcessWareERP.asia

What if...

*...you could contain Manufacturing costs by having
Customer Specifications tied with Production Formulas?*

"The uniqueness of ProcessWare™ **ERP** is the focus the development team has put in understanding the nuances of the F&F industry. Features like Drum-off and customized menus offer tremendous flexibility for existing companies to adopt the change fairly seamlessly."

— Paolo George
CEO
Symega Flavours India (P) Ltd.

"With ProcessWare™ **ERP** team's honest and hardworking approach, we managed our implementation without any problem or inconvenience. I would highly recommend it to anyone in the F&F industry!"

— Mustafa Kemal Altinel
Business Development Executive
eps fragrances (Erdoğan Parfüm Sanayi)

Contact Us Now!

Harmander Singh Bindra - CEO
Mobile: +91 98300 34635
Email: hsbindra@dipssindia.com

Dip Software Solutions Pvt. Ltd.
P-561, Lake Road
Kolkata 700 029

Member - IFRA North America



#1 Software Solution for the Flavors & Fragrance industry - ProcessWare™ **ERP!**

Understanding and Appreciating Fragrance

SHALIMAR

Dr. Geetanjali Ranade, Quintessence Fragrances Pvt Ltd, India
Email: ggr@quintfragrance.com

Perfume has always been the symbol of style, fashion, glamour and luxury. Though the word Perfume is Latin word, meaning *through smoke*, it is now used to describe nice smelling compound. Since ancient times, human has been using different ways to smell good, natural oils, nice smelling resins flowers are few such.

Over a period of time, after discovery of synthetic chemicals and through the knowledge of mixing in different proportion, perfumers started designing various fragrances and naming them, describing them to create an aura for user. Here am telling story of 'Shalimar', the fragrance created almost a century ago and still appreciated.

Shalimar means 'Home of Love' in Sanskrit. It is one of the flagships in French Perfumery. The fragrance was created in 1925 by Jacques Guerlain. Rumour has it that he created this perfume as a tribute to the legendary love story between Mumtaz and Emperor SHAHJAHAN.

There are two Shalimar Gardens. One at Lahor (now in Pakistan), was built by the Mughal Emperor Shah Jahan. Construction began in 1641 A.D. (1051 A.H.) and was completed the following year. Another one was built in Kashmir (Shrinagar) by Emperor Jahangir for his queen Noor Jahan. Upon completion of this garden, the Emperor Jahangir is said to have recited the famous Persian expression: "If there is a paradise on earth, it is this, it is this." The gardens in Shrinagar were the inspiration for other gardens of the same name, notably the Shalimar Gardens at Lahore in Pakistan.

Whether it is a story or fascinating and effective marketing, the magic created by Shalimar is indisputable. Notes include lemon, jasmine, bergamot, rose de mai, opoponox, vanilla, iris, ambergris. Shalimar is also the first perfume to contain vanillin, ethyl vanillin, artificial molecules that smell like vanilla but is marked by an irresistible intensity.

Try to imagine and experience the fragrance with its exotic notes: Citrus fresh sensation leading to indulging woody floral and finally a lingering sweet balsamic reminiscence, which leaves behind a nostalgic feeling.

In Perfumer's language, Shalimar is classified as 'Oriental Amber fragrance'.

Top Note: Lemon, Bergamot, Mandarin, Rosewood with anise-like spicy feel ----- **citrusy fresh**

Middle Note: Patchouli, Rose, Jasmine, Orris, Vetiver and hint of Petitgrain and Tuberose ---- **woody floral**

End Note: Opoponox, Vanilla, Benzoin, Peru Balsam, and leather with a dash of chocolate ----- **sweet powdery balsamic**

Consider the blend of naturals in the fragrance. Shalimar is the best combination of opposite emotions put together so that the user feels composed and balanced while at the same time, refreshed, uplifted and invigorated by the citrus combinations. The floral hues that follow give the perfume a sense of escapism and opulence with

powdery accents of iris, jasmine, rose and tuberose. Here is tranquillity which makes you at peace with yourself and your surroundings. The beauty of the creation is the delivery of all these with a sense of maturity. Wearing it, you feel you are 'living' life to its fullest.

Incredible as it sounds, trust me when I say that if you wear this fragrance with combinations of green – yellow, yellow- violet, orange-red, pink- violet, you will experience new fragrance each time.

The Shalimar bottle is reminiscent of the fountains in the gardens of oriental palaces. The bottle's cap is like a deep blue fan suggesting the traditional customs of those mysteriously enchanting countries. The design is made by Jacques' cousin, Raymond Guerlain.



A fragrance, created in 1925 as a salute to eternal love still leaves the wearer with the impression of serene and divine feelings and the nostalgia for compassion and passion.

For the descriptions given in top, middle and end note, lets see, which perfumery ingredients have similar odour descriptions. Giving couple of examples for understanding

Top note: Citrusy fresh

Limonene D, Citral, Citrythal, Dihydromyrcenoal, Aldehyde C11 enic etc

Middle note: Woody floral

Many ingredients have woody notes, Ionones, Baccanol, Andrane, Cedryl acetate etc

Similarly, many ingredients are classified as florals, such as phenyl ethyl alcohol, geraniol, rose oxide, citronellol (rosy), cyclamen aldehyde, lilial, benzyl acetate (white florals).

End note: Sweet, powdery, balsamic

Vanillin, Oakmoss, Veramoss, ethyl vanillin etc

The above list of ingredients is only for reference purpose, understanding and learning. Any perfumery enthusiast smells this perfume, surely will try to perceive the ingredients while smelling and studying this fragrance. Also while smelling remember the bottle filled in with SHALIMAR.



About the author:

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

Thakker Group
a promise for quality

Importers and Stockist of



HIGHEST QUALITY SUPPLIER OF OILS

READILY AVAILABLE

AVACADO OIL

BORAGE OIL

EVENING PRIMROSE OIL

EVOIL ALMOND OIL

EVOIL APRICOT KERNEL OIL

EVOIL SESAME OIL

EVOIL WHEATGERM OIL HVE PLUS

GRAPESEED OIL

HAZELNUT OIL

HEMPSEED OIL

JOJOBA OIL CLEAR

JOJOBA OIL GOLDEN

MACADAMIA NUT OIL

OLIVE OIL POMACE

OLIVE OIL EXTRA VIRGIN

PUMPKIN SEED OIL

ROSE HIP OIL

SHEA BUTTER

SWEET ALMOND OIL

WALNUT OIL

AND MANY OTHER PRODUCTS ON DEMAND

PHARM AROMATIC CHEMICALS

507 NAIN KRUPA BUILDING, 118/122 KAZI SYED STREET,
MASJID BUNDER WEST, MUMBAI – 400 003

ASHISH THAKKER 9870031751
MAHESH THAKKER 9821334436

TELEPHONE : 022 23432526/23448032 EMAIL : thakker_group@outlook.com

Translation studies for utilizing aromatic essential oils for developing eco-friendly floor disinfectant formulation

Priyanka Singh, Sudha Agarwal, Anirban Pal, C.S.Chanotiya, Puja Khare, Dinesh Kumar, M.P.Darokar and Ramesh Kumar Srivastava*

CSIR-Central Institute of Medicinal and Aromatic Plants, P.O CIMAP Lucknow-226015

*Corresponding author: Dr. Ramesh Kumar Srivastava, Sr. Scientist and Head, Business Development Group, CSIR-CIMAP, Lucknow-226015; Email: rksrivastava@cimap.res.in

ABSTRACT

Essential oil which is secondary metabolites of the plants are the source of various eco-friendly products of common use. A formulation of aromatic floor disinfectant was developed by using Lemon grass (*Cymbopogon flexuosus*) and Cedarwood (*Cedrus deodara* (Roxb.) L.) with natural surfactant. The synergetic effect of the essential oils exhibit good anti-microbial activity^{1,2} against common pathogen *Salmonella typhimurium*, *Staphylococcus aureus* and *Escherichia coli*, which are mainly found on the floor and surface. The evaluation of the combination of essential oils for efficacy, toxicity, stability and pharmacognostic parameter with chromatography profile for development of formulation has been done in the present paper.

Keywords: Essential oil, Lemongrass, Cedarwood, formulation, anti-microbial activity, disinfectant

INTRODUCTION

Globally, cleaning of the floor and surface is the main activity in the daily life of the human beings to keep the sitting and working places in hygienic condition. Bacteria like *Salmonella typhimurium*, *Staphylococcus aureus* and *Escherichia coli* are mainly present on the floor and they causes different types of infection in human beings. Within the premises, children touch the floor every day while crawling to sitting, playing, rolling around and also kids eat stuff off from the floor too. When food comes into contact with a contaminated surface for more than five seconds, the bacteria gets transferred into the food. A wide range of household disinfectant, cleaner products are available in the market but most of them contain synthetic chemicals and harmful acids, which may be detrimental to human health and the environment. Hence, it was felt to formulate a essential oil based floor cleaner to minimize the health and environment hazard.

CSIR-CIMAP has scientifically developed a novel

formulation of aromatic floor cleaner that contains bioactive molecules from plant sources. Lemon fresh natural floor disinfectant was intended to remove the harmful bacteria from the floor and provides a healthy and safe environment for human being. The acid and phenol-free water-soluble floor cleaner removes germs & stains and also provides long-lasting fresh odour in the area.

EXPERIMENTAL METHODOLOGY

An experiment was designed with two bio-active molecules with natural surfactant. A synergetic effect of the unique combination of bio-actives has good anti-bacterial property against commonly available bacteria on the floor. In the present experiment, the formulation was analyzed for different parameters such as organoleptic characters, phyto-chemical evaluation, anti-bacterial, anti-fungal activities, skin irritation test, oral toxicity, stability and chromatography profile were studied.

Organoleptic Characters: Visual assessment of the prepared formulation was assessed for color, clarity and odour.

pH: The pH of developed floor cleaner formulations was determined using a calibrated digital pH meter. 10gm of the sample was dissolved in 100 ml distilled water and kept aside for 5 minutes. The measurement of pH of each formulation was done in triplicate and average value was calculated.

Refractive Index at 25°C: Transparency of the finished formulation was studied by Anton Paar Refractometer Abbemat-200

Viscosity measurement: Viscosity of the formulation was recorded by Brookfield DV-3T RV, Spindle 02, Speed 65 RPM, Torque 32%, Time 5.00 min at Temp. 27°C.

Color measurement: Colour of the formulation was measured by Tintometer (Lovibond LC-100 Spectrocolorimeter).

Efficacy data:

(a) Anti-microbial activity (well diffusion assay)³

The antibacterial activity of the formulation was determined using well diffusion assay (Velgas et al., 2007). Inoculum of the test bacteria [Gram-positive: *Staphylococcus aureus* (MTCC 96), *Staphylococcus epidermidis* (MTCC 435) and *Streptococcus mutans* (MTCC 890); Gram-negative: *Klebsiella pneumoniae* (MTCC 109), *Escherichia coli* (MTCC 723), *Escherichia coli* (DH5a), *Salmonella typhimurium* (MTCC 98) and *Pseudomonas aeruginosa* (MTCC 741)] (Table.2) were prepared equivalent to McFarland Standard 0.5 (1×10^6 CFU/mL). For this study, the uniform bacterial lawns were made using 100 μ L inoculums on Mueller Hinton agar plate. A hole with a diameter of 6 mm was punched aseptically with a sterile cork borer or a tip and a volume (50 μ L) of the formulation was introduced into the well. The plates were incubated at 37°C for 24 hour. The activity was measured in terms of zone of inhibition (ZOI,

mm). The net zone of inhibition was determined by subtracting the well diameter (i.e., 6.0 mm) from the total zone of inhibition shown by the test formulation samples in terms of clear zone around the well.

(b) Antifungal activity

The antifungal activity of the formulation was also determined using well diffusion assay (Magaldi et al., 2004). In this experiment, four fungal strains *Aspergillus flavus*, *Sporothrix schenckii*, *Candida albicans* 227 and *Candida albicans* 3017 (Table.3) were prepared equivalent to McFarland Standard 0.5 (1×10^6 CFU/mL). To study the efficacy of the formulation, uniform fungal lawns were made using 100 μ L inoculums on Sabouraud's Dextrose agar plates. Then, a hole with a diameter of 6 mm was punched aseptically with a sterile cork borer or a tip, and a volume (50 μ L) of the formulation was introduced into the well. The plates were incubated at 28°C for 48-72 hours. The activity was measured in terms of zone of inhibition (ZOI, mm). The net zone of inhibition was determined by subtracting the well diameter (i.e., 6.0 mm) from the total zone of inhibition shown by the test formulation samples in terms of clear zone around the well.

Safety and Toxicity data:

(a) Skin Irritation Test (Primary Skin Irritation Test) of the formulation

Normal, healthy NW rabbits (two sets of the experiment: four animals each set) of approximately 1.5 to 2.5 kg body weight were selected for Primary Skin Irritation Test.

Methodology

The experimental site was shown off, two hours before application of the test compound. The formulation was applied (1gm/sq inch) to the test site by introduction under a double gauze layer to an area of skin approximately 1" square, while the skin at control site remained intact. The patches were covered with a non-reactive tape and the entire test site was wrapped with a binder. Binders tape was removed after 4 hours and the test material residues were removed with 70% isopropyl alcohol and observations were made after 4, 24, 48, and

72 hours after patch removal to assess individual erythema and oedema scores. The reactions were scored according to the methods described as follows, in the score of the Primary Irritation Index (PII). According to FHSA (Federal Hazardous Substances Act)³ regulations, a material with a PII of less than 5.00 is generally not considered a primary irritant to the skin. The primary irritation index for each animal was done by adding together the Primary Irritation Scores for both erythema and oedema separately for each test material at each time specified and divided by the total number of observations. A similar assessment is made of the sites, which were kept as control. The primary irritation index was obtained by subtracting the test scores from the control ones.

Studies on oral acute toxicity

Acute oral toxicity of the formulation was carried at on *Swiss albino* mice by following the Organization for Economic Co-operation and Development (OECD) test guideline No 423 (1987)⁴. Twelve Swiss albino mice were arbitrarily divided into two groups, each consisting of six mice (3 male, 3 female) (Table 1). Overnight (12 hours fasting) starved mice were treated orally with a single dose of the formulation at a dose of 2000 mg/kg body weight and designated as a test group. The second group received an equal volume of vehicle (TDW) and considered as control group. Animals were inspected at an hour's interval during the first 12 hours for any alteration in the symptoms of mobility, posture, piloerection, respiratory pattern and for mortality, thereafter for next 7 days.

Table 1: Hematological and biochemical parameters of the experimental animals.

Parameters (Unit)	Vehicle	Floor cleaner@ 2000 mg/kg
Body weight (gm)	27.32±2.40	24.03±2.70
Hemoglobin (gm/dl)	22.65±4.48	22.28±3.53
RBC count (cells x 10 ⁶ /μL)	14.23±1.88	14.05±0.62
WBC count (cells x 10 ⁴ /μL)	9.73±3.49	11.85±1.67
Total cholesterol (mg/dL)	136.12±13.65	151.34±38.58
Triglycerides (mg/dL)	154.27±27.55	144.93±17.58
Serum creatinine (mg/dL)	1.85±0.21	1.74±0.21
Serum bilirubin (mg/dL)	0.29±0.13	0.28±0.11
Uric acid (mg/dL)	9.82±1.26	9.66±1.93
Alkaline Phosphatase (U/L)	220.66±54.95	297.65±78.34
SGPT (U/L)	44.62±27.91	45.13±5.17
SGOT (U/L)	50.08±26.95	47.70±9.53

Data are the Mean±SD of six animals

Fingerprint (GLC/GC-MS) of the formulation:

A 1.0 ml headspace syringe was utilized to draw the sample vapours from headspace vial of 20 ml capacity. About 100 mg each of fresh leaves was weighed accurately and placed in three separate

headspace vials. Each vial fitted with screw cap and silicone/PTFE of 18 mm 35 SHORE. A septum was transported to headspace heater with the help of COMBIPAL Autosampler (CTC Analytics). Syringe was kept at 140°C with the flush time of 15 seconds. Nitrogen gas was used to flush the syringe. Sample

incubation was carried out in heater at 140°C with 5 minutes incubation time, incubation rpm of 300, the agitator was on for 5 minutes. For sample filling, plunger fill speed was 200 µL/seconds with a total of 5 fill strokes and a viscosity delay of 5 seconds. The injection was done with a pre-injection delay of 0.05 seconds and plunger injection speed of 500 µL/seconds.

RESULT:

After above study, following result were found for the formulation

Organoleptic Character:

Appearance	:	Transparent Liquid
Colour	:	Yellowish Green
Odour	:	Sweet, herbaceous, smoky and lemony aroma.
Refractive Index at 25°C	:	1.3510 - 1.3525nD
pH	:	5.5-5.9
Viscosity measurement	:	450-480 cp.

Efficacy data of the formulation

(a) Anti-microbial activity (well diffusion assay)

Table.2 Anti-bacterial well diffusion assay (Zone of inhibition in millimeter)

Bacterial Strains	Bacterial spp.	FC - 1
SA-96	<i>Staphylococcus aureus</i>	18
SE	<i>Staphylococcus epidermidis</i>	12
SM	<i>Streptococcus mutans</i>	19
STM	<i>Salmonella typhimurium</i>	16
EC	<i>Escherichia coli</i>	6
KP	<i>Klebsiella pneumoniae</i>	8
PA	<i>Pseudomonas aeruginosa</i>	8
DH5α	Competent <i>E. coli</i>	10

(b)Table-3 Antifungal –well diffusion assay (zone of inhibition in millimeter)

Fungal Strains	FC-1
<i>Aspergillus flavus</i>	20
<i>Sporothrix schenckii</i>	20
<i>Candida albicans 227</i>	21
<i>Candida albicans 3017</i>	23

Safety and Toxicity data of the formulation

Skin Irritation Test- Primary Skin Irritation Test of the Formulation

The primary skin irritation index was found to be 0.250 which is much below the acceptable standards (5.0) of federal hazardous standards association (FHSA), USA. Hence, formulation is non irritant to skin.

(c) Acute Oral Toxicity of the formulation

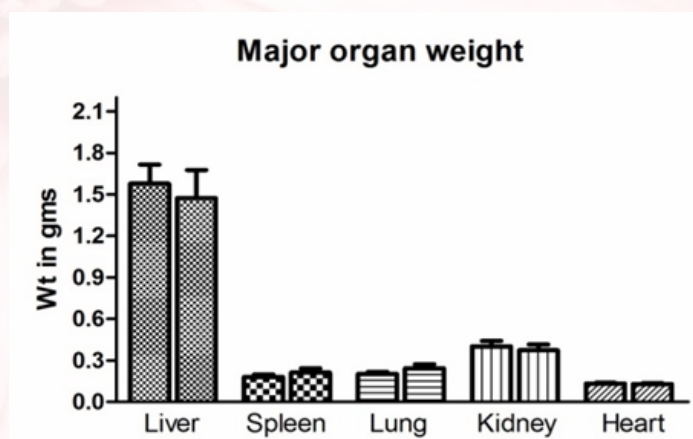


Fig.1

Efferct on oral toxicity of the formulation:

No significant toxicity was recorded in the acute oral toxicity study of the formulation at a single dose of 2000 mg/kg body weight.



Fig.2: Unique formulation

Stability study:

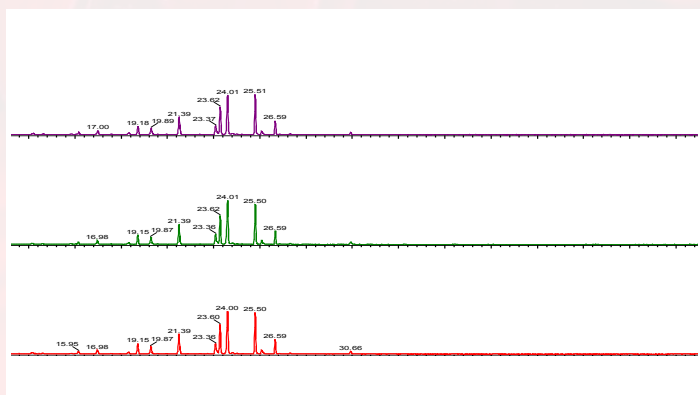


Fig.3: Comparative GCMS result of the formulation

DISCUSSION: The developed aromatic natural floor disinfectant contains hydro-distilled essential oils of lemongrass and cedarwood which shown good anti-microbial activity against the commonly available bacteria on the floor, such as *Salmonella typhimurium*, *Staphylococcus aureus* and *Escherichia coli*, meaningless to mentioned that anti-microbial activity of essential oils is well known, which was defined by Kalemba and Kunicka⁵. The main components of lemongrass oil are citral, citronellal and limonene and in cedar wood are a-cedrene, b-cedrene, sesquiterpenes and cedrol, which posses antimicrobial activity as reported by Kumar et al⁶. The formulation is safe and found non-irritant to the skin. The oral toxicity result indicate that the product has no oral toxicity. The formulation is environmentally friendly as compared to harmful chemicals based commonly available products. The aroma of natural essential oils is very pleasant and long lasting as per feedback report.

CONCLUSION:

The results of the study indicates that the formulation was safe and non toxic. The formulation shown acceptance of physical parameters. In-vitro, antimicrobial activity also boosting results. The

short-term stability data indicate that formulation was physically and chemically stable for shelf life. The natural aromatic formulation exhibits a synergistic effect to kill the germs on the floor and have no adverse effect with long lasting pleasant aroma. Now, this unique combination of the natural essential oil is available for licensing to MSMEs/ Startups and entrepreneurs who want to start their venture in natural floor cleaner

Acknowledgment: Authors are highly thankful to Director, CSIR-CIMAP for providing facilities and encouragement for this study

REFERENCE

1. Bassole Imael Henri Nestor and Julinai H. Rodolfo *Essential Oils Combination and Their Antimicrobial Properties Molecules* 2012, 17(4), 3989-4006
2. Gupta Aditi, Sharma Satyawati and Naik S.N. *Biopesticidal value of selected essential oils against pathogenic fungus, termites, and nematodes.* International Biodeterioration & Biodegradation Volume 65, Issue 5, August 2011 : 703-707
3. Holder I.A and Boyce S.T. *Agar well diffusion assay testing of bacterial susceptibility to various antimicrobials in concentrations non-toxic for human cells in culture.* Burns Volume 20, Issue 5 October 1994: 426-429
4. Jonsson Martina, Jestoi Marika, Nathanail Alexis V, Kokkonen Ulla-Maija, Anttila Marjukka, Koivisto Pertti, Karhunen Pirkko and Peltonen *Application of OECD Guideline 423 in assessing the acute oral toxicity of moniliformin.* Food and Chemical Toxicology, Volume 53, March 2013 : 27-32
5. Kalemba, D.and Kunicka, A. *Antibacterial and Antifungal Properties of Essential Oils* Current Medicinal Chemistry, Volume 10, Number 10, 200: 813-829(17)
6. Kumar Lalit, Chaudhari D, Jawale Bhusan Arun, Sharma Sheela, Sharma Hemant, Kumar C.D.Mounesh and Kulkarni Puja Adwait *Antimicrobial activity of commercially available essential oils against streptococcus mutants* The J. of Contemporary Dental Practice January-February 2012, 13(1):71-74



VIJAY GROUP

Adding flavour & fragrance to life

MUMBAI • BENGALURU

SINCE 1982

**MORE THAN
1200**

AROMA INGREDIENTS AVAILABLE UNDER
ONE ROOF

MINIMUM TO MAXIMUM

**WE STOCK & TRADE IN AROMA INGREDIENTS, ESSENTIAL OILS & RESINOIDS OF
INDIAN COMPANIES**

AKSHAY CHEMICALS - MAHARASHTRA
ANKIT CHEMICALS - MAHARASHTRA
ANSHUL SPECIALITIES MOLECULES PVT LTD - MAHARASHTRA
AQUILA ORGANICS PVT LTD - MAHARASHTRA
ATUL LTD - GUJARAT
BBK SPECIALITIES - MAHARASHTRA
DRT - ANTHEA - MAHARASHTRA
ETERNIS FINE CHEMICALS PVT LTD - MAHARASHTRA
FINE O CHEM PVT LTD - GUJARAT
FLORA ESSENTIAL OILS - GUJARAT
GREEN LEAF EXTRACTIONS PVT LTD - COCHIN
GREEN PINE INDUSTRIES - UTTARAKHAND
JAYSHREE AROMATICS PVT LTD - GUJARAT
KALPASUTRA CHEMICALS PVT LTD - MAHARASHTRA
KEVA FRAGRANCES PVT LTD - MAHARASHTRA
LANXESS INDIA PVT LTD - MAHARASHTRA
MAC INDUSTRY - GUJARAT
MAPLEROSE AROMAS PVT LTD - MAHARASHTRA
MEHK CHEMICALS PVT LTD - MAHARASHTRA
MORAYA GLOBAL LTD - MAHARASHTRA
N. R. OILS - GUJARAT
ORGANICA AROMATICS PVT LTD - KARNATAKA
ORIENTAL AROMATICS LTD - MAHARASHTRA
PERFINE CHEMICALS - MAHARASHTRA
PRIVI SPECIALITY CHEMICALS PVT LTD - MAHARASHTRA
S. H. KELKAR & CO. PVT LTD - MAHARASHTRA
S.G. AROCHEM INDUSTRIES - MADHYA PRADESH
SODIUM METALS PVT LTD - GUJARAT
SUPER CHEMICALS - GUJARAT
SUPERMINT EXPORTS PVT LTD - UTTAR PRADESH
TADIMETY AROMATICS PVT LTD - KARNATAKA
TIDE INDUSTRIES - GUJARAT
U K AROMATICS & CHEMICALS - MAHARASHTRA
VIKRAM THERMO INDIA PVT LTD - GUJARAT

INTERNATIONAL COMPANIES

ALPACASO - PARAGUAY
AMIGO - PARAGUAY
BIOLANDES - FRANCE
CHARABOT - FRANCE
DISTILLERE BLEU PROVENCE - FRANCE
DOMINUS OLEUM LTD - BULGARIA
DSM - SWITZERLAND
FIRMENICH - SWITZERLAND
FRUTAROM - ISRAEL
GIVAUDAN - SWITZERLAND
HANGZHOU GRASCENT CO. LTD - CHINA
HENKEL (KAO) - JAPAN
IFF - SWITZERLAND
K L KOH - SINGAPORE
EMERALD KALAMA CHEMICALS - USA
DESTILERIAS MUNOZ GALVEZ S. A - SPAIN
NANJING COSMOS CHEMICALS CO.LTD - CHINA
NIPPON ZEON - JAPAN
O'LAUGHLIN INDUSTRIES LIMITED - CHINA
PT AROMA ATSIRI - INDONESIA
RIVERA BALSAM - USA
TEXAROME - TEXAS



Roma Aromas®

add marvels to your creation

MUMBAI
SINCE 1997

👤 JITESH GUDKA
☎ +91 93211 11912
☎ +91 22 24132121
👤 RUSHAB SHAH
☎ +91 99202 85441
✉ roma@vijaygroup.com
🌐 www.vijaygroup.com/roma



Vijay Trading Co.

MUMBAI
SINCE 1992

👤 KETAN SAVLA
☎ +91 93222 66728
☎ +91 22 24132120 / 23
👤 MITESH SHAH
☎ +91 98907 65510
✉ vtco@vijaygroup.com
🌐 www.vijaygroup.com/vtco



**UNITED CHEMICALS
& PERFUMES**

BENGALURU
SINCE 1997

👤 MIRAJ DODHIA
☎ +91 94 27773902
☎ +91 80 23116330
☎ +91 80 23407863
👤 HITESH SAVLA
☎ +91 93414 16330
✉ ucpsbc@gmail.com





VIJAY GROUP

Adding flavour & fragrance to life

MUMBAI • BENGALURU
SINCE 1982



MEHK CHEMICALS PRIVATE LIMITED

SPECIALITY AROMA INGREDIENTS 

6 Methyl Quinoline

(Para Methyl Quinoline)

2-Isobutyl Quinoline

6 Secondary Butyl Quinoline

(Pyralone)

6-8 Secondary Butyl Quinoline

Ambrether

(Kephalis)

Amyl Vinyl Carbinol

(Matsutake Alcohol)

Amyl Vinyl Carbinol Acetate

(Matsutake Ace.)

D M B C

D M B C A

D M P E C

(Muguet Carbinol)

Diphenyl Methane

Fructose

(Apple Ketal, Applitone)

Green Acetal

(Heptaldehyde Ethylene Glycol Acetal)

Methyl Benzoate

Methyl Phenyl Acetate

Neo Greenal

(Heptanal Propylene Glycol Acetal)

Neo Jasminoid

(Fleuramone, Projasmone P)

Oodinol

(Arabinol, Cedanol)

Penta Sandal

(Iso Mohanol)

Phenyl Ethyl Iso Amyl Ether

(Pommerol, Anther)

Sweet Sandal

Verdyl Acetate

(Dcpd Acetate, Cyclacet)

Vetacetate

(Veticol Acetate)

Veticone

(Vetikon)

Indenting Agent & Stockist



Roma Aromas®

add marvels to your creation

MUMBAI
SINCE 1997

 JITESH GUDKA
 +91 93211 11912
 +91 22 24132121



Vijay Trading Co.

MUMBAI
SINCE 1992

 KETAN SAVLA
 +91 93222 66728
 +91 22 24132120 / 23



**UNITED CHEMICALS
& PERFUMES**

BENGALURU
SINCE 1997

 MIRAJ DODHIA
 +91 94 27773902
 +91 80 23116330





Musks & Fragrance

Indentors for : AROMATIC CHEMICALS & ESSENTIAL OILS

911/A, 'B' Wing, Kanakia Wall Street, Near Holy Family Church,
Andheri Kurla Road, Andheri (East), Mumbai - 400093.(India).
Tel. : +91-22-68151800(100 lines) E-Mail : indentor@muskfrag.com
Web : www.muskfrag.com

INDENTORS FOR AROMATIC CHEMICALS & ESSENTIAL OILS

Vanillin Julian

Vanillin Eternal Pearl

Ethyl Vanillin Eternal Pearl

All Products are Ex Catechol & FCC IX Grade

Manufactured by
**Jiaxing Zhonghua Chemical Co.Ltd.,
China**

EXploring Essential Oils As Potential Complimentary Therapy Against The Ravaging Coronavirus (Sars-Cov-2)

Uday Naik Aromax Creation, G 39/3, MIDC, Waluj, Aurangabad-431136.
Maharashtra, India. Mob: 91- 91 123456 01.

ABSTRACT

This paper attempts to shed light on how the use of certain essential oils could be a potential complementary preventive therapy or adjuvant therapeutic strategy for COVID-19. The results reviewed in this article are aimed at attracting the attention of those investigating the pharmaceutical diversity of essential oils as well as researchers seeking new drugs from natural products as therapeutic agents against the novel Coronavirus.

ABOUT COVID-19

Coronaviruses (CoV) are a type of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS-CoV) and Severe Acute Respiratory Syndrome (SARS-CoV). A coronavirus identified in 2019, SARS-CoV-2, has caused a pandemic of respiratory illness, called COVID-19. As of April 16, 2021, 2,989,103 deaths have been attributed to COVID-19. However, 79,297,295 people have survived the illness. [1]

Coronaviruses are zoonotic, meaning they are transmitted between animals and people. Detailed investigations found that SARS-CoV was transmitted from civet cats to humans and MERS-CoV from dromedary camels to humans. Several known coronaviruses are circulating in animals that have not yet infected humans. On December 31, 2019, China informed the World Health Organization (WHO) about cases of pneumonia of unknown aetiology detected in Wuhan city, Hubei province of China. The cause of this disease was a then-new

coronavirus later named SARS-CoV-2. This new virus SARS-CoV-2 may have originated in an animal and mutated so it could cause illness in humans. In the past, several infectious disease outbreaks have been traced to viruses originating in birds, pigs, bats and other animals that mutated to become dangerous to humans. Research continues, and more study may reveal how and why the coronavirus evolved to cause pandemic disease. [1]

Common signs of infection include fever, dry cough, fatigue etc. Other symptoms that are less common and may affect some patients include loss of taste or smell, nasal congestion, conjunctivitis (red eyes), sore throat, headache, muscle or joint pain, different types of skin rash, nausea or vomiting, diarrhoea, chills or dizziness. Symptoms of severe Covid-19 disease include shortness of breath and breathing difficulties, loss of appetite, confusion, persistent pain or pressure in the chest, high temperature (above 38 °C). In more severe cases, infection can cause pneumonia, severe acute respiratory syndrome, kidney failure and even death. People of all ages who experience fever and/or cough associated with difficulty breathing or shortness of breath, chest pain or pressure, or loss of speech or movement should seek medical care immediately [1]. Standard recommendations to prevent infection spread include regular hand washing, physical distancing, wearing a mask, keeping rooms well ventilated, avoiding crowds, and coughing into a bent elbow or tissue, thoroughly cooking meat and eggs etc. Avoid close contact with anyone showing symptoms of respiratory illness such as coughing and sneezing.

Scientists around the world are working to find and develop treatments for COVID-19. Optimal supportive care includes oxygen for severely ill patients and those who are at risk for severe disease and more advanced respiratory support such as ventilation for patients who are critically ill. For mild cases of coronavirus disease, your doctor may recommend measures such as fever reducers or over-the-counter medications. More severe cases may require hospital care, where a patient may receive a combination of treatments that could include steroids, oxygen, mechanical breathing support and other COVID-19 treatments in development. Infusions of monoclonal antibodies given to certain patients early in the infection may reduce the symptoms, severity and duration of the illness. Dexamethasone is a corticosteroid that can help reduce the length of time on a ventilator and save lives of patients with severe and critical illness. Results from the WHO's Solidarity Trial indicated that remdesivir, hydroxychloroquine, lopinavir/ritonavir and interferon regimens appear to have little or no effect on 28-day mortality or the in-hospital course of COVID-19 among hospitalized patients [1,]. Hydroxychloroquine has not been shown to offer any benefit for treatment of COVID-19. WHO does not recommend self-medication with any medicines, including antibiotics, as a prevention or cure for COVID-19. WHO is coordinating efforts to develop treatments for COVID-19 [1]. Unfortunately, there are very limited approved drugs available with established efficacy against the SARS-CoV-2 virus and its inflammatory complications.

Essential oils (EOs) have long been known to have anti-inflammatory, immune modulatory, broncho dilatory, and antiviral properties and are being proposed to have activity against SARS-CoV-2 virus [3]. Owing to their lipophilic nature, essential oils are advocated to penetrate viral membranes easily leading to membrane disruption. Moreover, essential oils contain multiple active phytochemicals that can act synergistically on multiple stages of

viral replication and also induce positive effects on host respiratory system including bronchodilation and mucus lysis. At present, only computer-aided docking and few in vitro studies are available which show anti-SARS-CoV-2 activities of essential oils. In this review, role of EOs in the prevention and treatment of COVID-19 is discussed. Intense efforts are ongoing to find a drug to control the disease COVID-19 across the globe. Meanwhile, alternative therapies are also being explored to manage the disease. In searching for potential protective measures, a review of published data on the efficacy of some essential oils as a potential anti-viral agent may be helpful. This article is aimed to critically review the relevant literature about efficacy of essential oils against corona virus. Several reports have analysed which describe essential oils as good antiviral agents against respiratory tract viral infections and hence excellent prospective candidate against Corona virus. Global interest in the development of drugs from natural products has increased greatly during the last few decades [4]. It is hoped that efficient and effective exploration and optimization of essential oils from medicinal plants would improve the drug discovery process against the ravaging Coronavirus. This document addresses the potential antiviral properties of some essential oils against COVID-19, and provides research summaries and references for their known antiviral functions.

ESSENTIAL OILS WITH ANTIVIRAL PROPERTIES

Selvarani et al [5] conducted a study in which they evaluated several essential oils and some of their major constituents for their possible anti-influenza virus properties in both liquid and vapor phases. In vapor phase Citrus bergamia, Eucalyptus globulus, and the isolated compounds citronellol and eugenol were very active against influenza virus following exposures of only 10 minutes. Pelargonium graveolens, Cinnamomum zeylanicum, Cymbopogon flexuosus were also very active with 30 minutes

exposure. In liquid phase, *Cinnamomum zeylanicum*, *Citrus bergamia*, *Cymbopogon flexuosus* and *Thymus vulgaris* displayed 100% inhibitory activity at 3.1 $\mu\text{L}/\text{mL}$ concentration. Under these conditions the vapours showed no measurable adverse effect on epithelial cell monolayers. This suggests that these oils in their vapor phases could be potentially useful in influenza therapy. The oil vapours were also evaluated for possible direct effects on the principal external proteins of the influenza virus, namely the HA (hemagglutinin) and NA (Neuraminidase). Several of the vapours inhibited the HA activity, but not the NA activity, suggesting that interaction with HA is a possible mechanism for the antiviral activity. Thus some of these oil vapours could have therapeutic benefits for people suffering from influenza, and possibly other membrane containing respiratory viruses.

Essential oils from eucalyptus, tea tree and thyme and their major monoterpene compounds α -terpinene, γ -terpinene, α -pinene, *p*-cymene, terpinen-4-ol, α -terpineol, thymol, citral and 1,8-cineole were examined for their antiviral activity against herpes simplex virus type 1 (HSV-1) in vitro [6]. These essential oils were able to reduce viral infectivity by >96%, the monoterpenes inhibited HSV by about >80%. The mode of antiviral action has been determined, only moderate antiviral effects were revealed by essential oils and monoterpenes when these drugs were added to host cells prior to infection or after entry of HSV into cells. However, both essential oils and monoterpenes exhibited high anti-HSV-1 activity by direct inactivation of free virus particles. All tested drugs interacted in a dose-dependent manner with herpesvirus particles thereby inactivating viral infection. Among the analysed compounds, monoterpene hydrocarbons were slightly superior to monoterpene alcohols in their antiviral activity, α -pinene and α -terpineol revealed the highest selectivity index. However, mixtures of different monoterpenes present in natural tea tree essential oil revealed a ten-fold

higher selectivity index and a lower toxicity than its isolated single monoterpenes.

Another essential oil with notable anti-influenza effects is tea tree, which is extracted from the leaves of *Melaleuca alternifolia* (Myrtaceae) [7]. Commercial tea tree oil is composed of terpinen-4-ol (30–48%), γ -terpinene (10–28%), α -terpinene (5–13%), 1,8-cineole (up to 15%), terpinolene (1.5–5%), *p*-cymene (0.5–12%), α -pinene (1–6%), and α -terpineol (1.5–8%). Tea tree oil showed 100% inhibition of influenza type A (H1N1) virus at 0.01% concentration and a median inhibitory concentration (IC_{50}) of 6 $\mu\text{g}/\text{mL}$ [7,8]. In addition, 30 min exposure of type A (H1N9) virus to tea tree oil vapor caused 100% inhibition [9]. The tea tree oil components, terpinen-4-ol, terpinolene, and α -terpineol, have shown anti-influenza virus activity against type A (H1N1), with IC_{50} values of 25, 12, and 250 $\mu\text{g}/\text{mL}$, respectively. α -Terpinene, γ -terpinene, and *p*-cymene were inactive, however [7].

One study evaluated the in vitro antiviral effect against influenza type A (H1N1) of commercial essential oils that included cinnamon (*Cinnamomum zeylanicum*), bergamot (*Citrus bergamia*), lemongrass (*Cymbopogon flexuosus*), thyme (*Thymus vulgaris*), and lavender (*Lavandula angustifolia*) [10]. The oils were tested in the liquid phase at a concentration of 0.3% and in the vapor phase. The oils of cinnamon, bergamot, thyme, and lemongrass displayed 100% inhibition of H1N1 in the liquid phase, while the inhibition for lavender essential oil was 85%. However, in the vapor phase, 100% inhibition was observed only for cinnamon leaf essential oil after 30 min of exposure. The bergamot, lemongrass, thyme, and lavender essential oils displayed inhibition rates of 95%, 90%, 70%, and 80%, respectively.

Essential oils obtained from eucalyptus (*Eucalyptus globulus*) are traditionally used to treat various respiratory ailments including pharyngitis,

bronchitis, and sinusitis [3]. Eucalyptus oil and its active constituent i.e. 1,8-cineol (popularly known as eucalyptol) have been shown to exhibit muscle relaxant effects by decreasing smooth muscle contractions of airways induced by different agents. Moreover, clinical studies have indicated that inhalation of 1,8-cineole extracted from eucalyptus exerted anti-inflammatory and analgesic effects; hence, it can be effectively used in chronic obstructive pulmonary disease (COPD) and asthmatic patients. Eucalyptus oil is reported to have in vitro antiviral activities against various strains of viruses including enveloped mumps viruses (MV) and herpes simplex viruses (HSV-1 and HSV-2). The antiviral activities of eucalyptus oil and its active constituent, i.e. 1,8-cineole against influenza A (H1N1) virus in in-vitro assays has also been reported. Both essential oil and 1,8-cineole were proposed to inactivate free influenza A virus and disrupt the envelope structures of virus. 1,8-cineole is also shown to protect mice against the HSV-2 virus.

Having established the antiviral activity of essential oils (EOs) against respiratory viruses, multiple researchers have attempted to explore the antiviral efficacy of EOs and its active ingredients against SARS-CoV-2 using in-vitro assays and molecular docking techniques.

I. EUCALYPTUS OIL

SARS-CoV-2, a member of corona virus family is spreading its tentacles across the world due to lack of drugs at present. Associated with its infection are cough, fever and respiratory problems causes more than 15% mortality worldwide. It is caused by a positive, single stranded RNA virus from the enveloped coronavirus family. However, the main viral proteinase (Mpro) has recently been regarded as a suitable target for drug design against SARS infection due to its vital role in polyproteins processing necessary for coronavirus reproduction.

Sharma et al [11] conducted in silico study which

was designed to evaluate the effect of 1,8 cineole on Mpro by docking techniques. In this research, molecular docking studies were conducted by using 1-click dock and swiss dock tools. Protein interaction mode was calculated by Protein Interactions Calculator. The calculated parameters such as Root Mean Square Deviation (RMSD), binding energy, and binding site similarity indicated effective binding of 1,8-cineol to covid-19 proteinase. Active site prediction further validated the role of active site residues in ligand binding. PIC results indicated that, Mpro/1,8-cineol complexes form hydrophobic interactions, hydrogen bond interactions and strong ionic interactions. Therefore, 1,8-cineol may represent potential treatment to act as COVID-19 Mpro inhibitor. However, in vitro enzymes assays, and animal models are suggested to confirm the efficacy of 1,8-cineole against SARS-CoV-2 proteinase [11].

Sharma et al [12] also predicted the anti-proteinase efficacy of jensenone, another component from eucalyptus oil and found that jensenone may represent potential treatment potential to act as COVID-19 Mpro inhibitor. The presence of jensenone is also reported in other essential oils such as cassia siamea wood. Further research is necessary to investigate potential medicinal use of jensenone. [12]

Juergens et al [13] conducted a double-blind clinical trial to check the efficacy of 1,8-cineole in steroid-dependent bronchial asthma patients. They reported that 1,8-cineol suppressed arachidonic acid metabolism and cytokine production in human monocytes. The aim of this study was to evaluate the anti-inflammatory efficacy of 1,8-cineol by determining its prednisolone equivalent potency in patients with severe asthma. 1,8-cineole was suggested to have profound bronchial anti-inflammatory activity in severe asthmatic patients. This is the first evidence suggesting an anti-inflammatory activity of the monoterpene 1,8-cineol in asthma and a new rationale for its use as mucolytic agent in upper and lower airway diseases. [13].

1,8-cineole (eucalyptol) is one of the components of Vicks VapoRub™ which is known to have nasal decongestant effects when applied to nose or inhaled as vapours in warm water. [3]

A study conducted by Merad et al [14] showed that almost all COVID-19 positive patients have lung abnormalities. Abnormal and overactive inflammatory responses to SARS-CoV-2 are proposed to be the major causes of disease severity and death in COVID-19 patients. This hyper-inflammatory state is associated with increased levels of circulating cytokines, profound lymphopenia, and substantial mononuclear cell infiltration in the lungs and other organs including heart, spleen, lymph nodes, and kidneys. The systemic cytokine profiles observed in patients showed increased production of cytokines such as IL-6, IL-7, and tumour necrosis factor (TNF) and many other pro-inflammatory cytokines. [14]. Various in vitro and ex vivo studies were conducted to study the effects of eucalyptus oils and 1,8-cineol treatments on monocytes and macrophage recruitment in response to lung inflammation and infections. Data of these studies demonstrate marked immunomodulatory properties of both eucalyptus oil and its active ingredient, i.e. 1,8-cineol. Both treatments reduced the release of pro-inflammatory cytokines from monocytes and macrophages, but their phagocytic properties were not halted. 1,8-cineol is also known to have mucolytic and broncho dilatory properties. Interestingly, eucalyptus oil has also been shown to have disinfection properties and inhibited the growth of viruses on various utensils and filter devices. Taken together, data from both preclinical and clinical trials point towards the promising therapeutic potential that resides in eucalyptus oil and its active constituent, i.e. 1,8-cineol in the prevention and treatment of COVID-19. Therefore, further studies are urgently warranted in this regard [3]

A research published in *Advances in Therapy* notes that 1,8-cineole has antioxidant and anti-

inflammatory properties that may be helpful for respiratory disorders such as chronic obstructive pulmonary disease (COPD). Other research into 1,8-cineole found that potential benefits include: preventing flare-ups in cases of moderate to severe COPD, clearing mucus from the lungs, reducing mucus production, opening up the airways in the lungs etc. The researchers noted that complementary therapy using 1,8-cineole showed a reduction in exacerbations of COPD. Further research published in the journal *Medicine Trusted Source* notes that another extract from eucalyptus, called myrtol, has proven effective in treating certain symptoms in people with COPD. Myrtol has anti-inflammatory properties and may help thin out mucus, making it easier to expel. Research published in the *Journal of Medicinal Plants Research* found that eucalyptus essential oil reduced markers of COPD in an animal study. Subjects exposed to the essential oil had reduced inflammation in the airways and bronchioles, as well as reduced markers of inflammatory damage. Researchers noted that eucalyptus oil may have use as a complementary human treatment for COPD.

II. GERANIUM OIL, LEMON OIL

The angiotensin-converting enzyme 2 (ACE2) receptor, a host cell receptor, has been found to play a crucial role in virus cell entry; therefore, ACE2 blockers can be a potential target for anti-viral intervention. In one study, the ACE2 inhibitory effects of 10 essential oils was evaluated [15]. Among them, geranium and lemon oils displayed significant ACE2 inhibitory effects in epithelial cells. In addition, immunoblotting analysis also confirmed that geranium and lemon oils possess potent ACE2 inhibitory effects. Furthermore, the gas chromatography-mass spectrometry (GC-MS) analysis displayed 22 compounds in geranium oil and 9 compounds in lemon oil. Citronellol, geraniol, and neryl acetate were the major compounds of geranium oil and limonene that represented major compound of lemon oil. Next, it was found that treatment with citronellol and limonene significantly

downregulated ACE2 expression in epithelial cells. The results suggest that geranium and lemon essential oils and their derivative compounds are valuable natural anti-viral agents that may contribute to the prevention of the invasion of SARS-CoV-2/COVID-19 into the human body.

III. GARLIC OIL

Garlic (*Allium sativum*) is likely originated in Central Asia. It is broadly used around the world as a flavouring agent and a traditional medicine. It is one of the very ancient spices used in Ayurveda. Even Sushruta has appreciated the benefits of garlic. Sweet, Salty, Sour, Pungent, bitter and astringent are the six tastes according to Ayurvedic belief. Garlic is one of those rare herbs which has five tastes except sour. *Allium sativum* has been used as a diaphoretic, diuretic, expectorant, and stimulant [16]. Extracts of *A. sativum* have shown broad-spectrum antibacterial [17] and antifungal [18] activity and the plant has been used to treat tuberculosis, coughs, and colds [19]. Garlic preparations have demonstrated hypotensive activity in moderately hypertensive subjects, and garlic-based phytotherapeutic products are used in France for minor vascular disorders [20]. There is an inverse correlation between regular consumption of garlic and stomach cancer frequency [20], but there seems to be no correlation between garlic consumption and other cancers. Garlic has been used in food preparation not only for its flavor, but also as a digestive aid [19]. *Allium vineale* has been used as a substitute for *A. sativum* in cooking; the bulb is used as a flavoring agent and the leaves as an addition to salad. Cherokee Native Americans used both *A. vineale* and *A. sativum* as carminatives, diuretics, and expectorants. [21]. Generally dried garlic bulbs contain about 0.5 – 0.6 % essential oil. The garlic essential oil is characterized by a high amount of sulfur compounds (84.3–98.9%) among which allyl disulphide (28.4%), allyl trisulphide (22.8%), allyl (E)-1-propenyl disulphide

(8.2%), allyl methyl trisulphide (6.7%), and diallyl tetrasulphide (6.5%) were identified as the main constituents of garlic essential oil. According to a study carried out by Bui Thi Phuong Thuy from Van Lang University, Viet Nam, out of 18 components found in garlic essential oil, 17 compounds were studied for their activities against ACE2 protein and viral main protease (Mpro) of SARS-CoV-2. [22]. It is known that ACE2 is involved in the viral invasion of host cells, while Mpro is involved in viral replication. All the 17 compounds of garlic essential oil studied showed interactions with host protein (ACE2) as well as with viral proteases, indicating that garlic oil has great potential to treat COVID-19 patients. [22]. On the basis of various docking and in vitro studies, it is proposed that garlic essential oils and their isolated constituents, especially Diallyl sulfide (DAS) have potential to prevent the entry of virus into host cells as well as to activate molecular antioxidant pathways that decrease the secretions of culprit pro-inflammatory cytokines. [23]

IV. E- β -FARNESENE, (E,E)- α -FARNESENE, (E)- β -FARNESENE, and (E,E)-FARNESOL.

Essential oils have shown promise as antiviral agents against several pathogenic viruses. In a research conducted by Silva et al [10] it is hypothesized that essential oil components may interact with key protein targets of the SARS-CoV-2 virus. A molecular docking analysis was carried out using 171 essential oil components with SARS-CoV-2 main protease, SARS-CoV-2 endoribonuclease, SARS-CoV-2 ADP-ribose-1"-phosphatase, SARS-CoV-2 RNA polymerase, the binding domain of the SARS-CoV-2 spike protein and human angiotensin-converting enzyme. The compound with the best normalized docking score to SARS-CoV-2 main protease was the sesquiterpene hydrocarbon (E)- β -farnesene. The best docking ligands for SARS-CoV-2 endoribonuclease were (E,E)- α -farnesene, (E)- β -farnesene, and (E,E)-farnesol. (E,E)-Farnesol showed the most exothermic docking to SARS-CoV-2

ADP-ribose-1"-phosphatase. This study indicates that these essential oil components when given alone and in a mixture, can inhibit viral replication. These phytochemicals are present in variable quantities in many of the essential oils obtained from different plants. So these essential oils could be a potential way to treat COVID-19. However more data from well-established preclinical and clinical studies is required.

V. ANETHOLE, CINNAMIC ALDEHYDE, CARVACROL, THYMOL ETC

In a study conducted by Kulkarni SA et al [24], major components of several essential oils which are known for their antimicrobial properties have been docked against the S1 receptor binding domain of the spike (S) glycoprotein, which is the key target for novel antiviral drugs, to ascertain their inhibitory effects based on their binding affinities. It has been found that some monoterpenes, terpenoid phenols and phenyl propanoids such as anethole, cinnamaldehyde, carvacrol, geraniol, cinnamyl acetate, L-4-terpineol, thymol and pulegone from essential oils extracted from plants belonging to families such as Lamiaceae, Lauraceae, Myrtaceae, Apiaceae, Geraniaceae and Fabaceae are effective antiviral agents that have potential to inhibit the viral spike protein.

VI. EUGENOL, MENTHOL, AND CARVACROL

Silva et al [10] used molecular docking techniques to screen the anti-SARC-CoV-2 efficacies of eugenol, menthol, and carvacrol, major components of EOs, against various proteins targets of SARC-CoV-2. Docking scores revealed that these compounds have binding affinities towards SARC-CoV-2 spike protein, main protease (Mpro), RNA dependent RNA polymerase and human ACE-2 proteins [10]. Another in silico study conducted by Kumar et al [25] evaluated the binding potential of carvacrol against SARC-CoV-2 main protease (Mpro) and showed that

it has the potential to inhibit Mpro and thus can halt viral replication. Providing dental care treatment to patients, while reducing the risk of highly contagious viral infection caused by SARS-CoV-2 is a challenge for dental professionals. Pradeep Kumar Yadalam et al [26] conducted a study with essential oils and concluded that essential oil components such as cuminaldehyde, carvacrol, myrtenol, caryophyllene, pinocarveol, and sylvestrene are good inhibitors of the S1 glycoprotein of coronavirus by in silico methods. Hence, these components can be proposed to be effective antiviral ingredients of pre-procedural mouth rinses recommended to be administered to patients for effective reduction of viral load in the oropharyngeal cavity. The futurology of this study indicates in vitro and in vivo testing of the same to confirm the antiviral efficiency of the proposed EO components, specifically against SARS-CoV-2. [26]

APPLICATION TECHNIQUES OF ESSENTIAL OILS AND PRECAUTIONS:

Essential oils are highly concentrated natural extracts from the leaves, flowers, and stems of plants. The most common way to use essential oils is to inhale them, both for their amazing scent and their therapeutic properties. But they can also be used in diffusers and humidifiers, as well as diluted with a carrier oil and applied to the skin. The easiest method of inhalation is to open a bottle of pure essential oil and inhale deeply a few times. But don't let the undiluted oil touch your skin. You can use essential oils for skincare and massage in a variety of ways. Dilute essential oils with a carrier oil and apply the mixture to your skin. Focus on areas of muscular pain, tightness, and tension. You can also gently rub the oil into pressure points such as your temples, wrists etc. Avoid contact with eyes. Avoid ingestion. You can also use the oils to massage your feet and place a few drops around your nose. The application technique of essential oils is variable depending on the symptoms of the disease and the treated area. The commonly used method is inhalation which can be divided into active and passive techniques. Active

inhalation means that patients use an inhalation device or patch from where they can directly inhale the volatile components. EOs can be used with passive inhalation as well, when the EOs are applied into the environment via heating, vaporization or forced air ventilation. An old-fashioned and the cheapest way for relieving the symptoms of respiratory diseases is vapour inhalation over a bowl of hot water containing a small amount of eucalyptus oil. The inhalation could be effective with the application of a towel over the head because in this case we could directly inhale the concentrated aromatic components. [27]. According to a case report, a female patient affected by respiratory syncytial virus (RSV) was treated with an EO mixture containing *Lavandula latifolia*, *Thymus mastichina*, *Balsam abies* and *Mentha x piperita*. [27, 28] Three drops were applied to a fibrous filter inserted into the base of a fan diffuser. The mixture was nebulized into the room every six hours and passively inhaled by the patient. Oxygen requirement was decreased to 1.5 litres per minute within 12 hours. [27]. This type of passive inhalation techniques could be studied more to find a way as potential complimentary treatment method in the present crisis of COVID-19.

Certain precautions must be taken while using essential oils. Essential oils are active extracts which must be used with the utmost care. Follow the instructions for use. A good number of essential oils are not permitted during pregnancy especially the first trimester and during breastfeeding. Similarly, some are not recommended for children under 7. In the event of kidney or liver problems, convulsive disorders, cardiovascular pathologies, persons subject to epilepsy or asthma and, in general, in the event of medical treatment or long-term disease, always seek the opinion of your family physician. If you are being treated with medication, watch out for possible interactions with essential oils. Do not hesitate to ask your physician or pharmacist for advice. An allergic reaction can never be ruled out, especially in vulnerable or sensitised subjects. It's best to take a skin test. place 1 or 2 drops of essential oil on the inside of your elbow, wait 48 hours, then repeat and wait 1 hour to make sure there is no

reaction. Avoid all contact with the eyes and mucous membranes. Rinse immediately with clean water. If accidental ingestion immediately contact the doctor or poison center.

CONCLUSION

This review attempts to shed light on the therapeutic potential of essential oils and their volatile constituents in the prevention or treatment of diseases. The results reviewed in this article are aimed at attracting the attention of those investigating the pharmaceutical diversity of essential oils as well as researchers seeking new drugs from natural products as therapeutic agent against the novel Coronavirus. The information presented provides a basis for reviving the old art of 'essential oil therapy' based on our modern scientific knowledge of their mechanism of action. Thus essential oils and their constituents can hopefully be considered in the future for more clinical assessment and possible applications in search for treatment against the ravaging Coronavirus. Currently, there are limited number of allopathic medicines considered effective against COVID-19. Current literature provides obvious evidence supporting use of essential oils as potential effective antivirals against SARS-CoV-2 and as potential preventive agents against COVID-19. However, these hypotheses require experimental validation in SARS-Cov-2 infection models and COVID-19 patients. In this regard, well-planned in vitro and in vivo studies are warranted to establish the safe dose and clinical efficacy of essential oils against SARC-CoV-2. The use of certain essential oils could be a complementary preventive therapy or adjuvant therapeutic strategy for COVID-19.

REFERENCES:

- [1]. www.who.int.
- [2]. www.who.int/emergencies/diseases/novel-coronavirus-2019/treatment.
- [3]. Muhammad Asif, Mohammad Saleem, Malik Saadullah, Hafiza Sidra Yaseen & Raghdah Al Zarzour. COVID-19 and therapy with essential oils having

antiviral, anti-inflammatory, and immune modulatory properties. 2020. <https://link.springer.com/article>.

[4]. Peter J. Wilkin, Minnatallah Al-Yozbaki, Alex George, Girish K. Gupta, Cornelia M. Wilson. Current Pharmaceutical Design, Vol-26, Issue-41, 2020, www.eurekaselect.com/186909/article

[5]. Selvarani Vimalanathan, James Hudson. Anti-influenza virus activity of essential oils and vapors. American Journal of Essential Oils and Natural Products 2014; 2 (1): 47-53.

[6]. Akram Astani, Jürgen Reichling, and Paul Schnitzler. Comparative study on the antiviral activity of selected monoterpenes derived from essential oils. Aug 2009, <https://www.ncbi.nlm.nih.gov/pmc/articles>.

[7]. Garozzo A., Timpanaro R., Bisignano B., Furneri P.M., Bisignano G., Castro A. In vitro antiviral activity of *Melaleuca alternifolia* essential oil. Lett. Appl. Microbiol. 2009;49:806–808. doi: 10.1111/j.1472-765X.2009.02740.x. Google scholar.

[8]. Garozzo A., Timpanaro R., Stivala A., Bisignano G., Castro A. Activity of *Melaleuca alternifolia* (tea tree) oil on influenza virus A/PR/8: Study on the mechanism of action. Antiviral Res. 2011;89:83–88. doi: 10.1016/j.antiviral.2010.11.010. Google scholar.

[9]. Usachev E.V., Pyankov O.V., Usacheva O.V., Agranovski I.E. Antiviral activity of tea tree and eucalyptus oil aerosol and vapour. J. Aerosol Sci. 2013;59:22–30. doi: 10.1016/j.jaerosci.2013.01.004. Google scholar.

[10]. 18. A1 Joyce Kelly R. da Silva, Pablo Luis Baia Figueiredo, Kendall G. Byler, and William N. Setzer. Essential Oils as Antiviral Agents, Potential of Essential Oils to Treat SARS-CoV-2 Infection: An In-Silico Investigation. Int. J. Mol. Sci. 2020, 21(10), 3426; May 2020

<https://www.mdpi.com/1422-0067/21/10/3426>

[11]. Sharma, A.D, Kaur, I. Eucalyptol (1,8 cineole) from Eucalyptus Essential Oil a Potential Inhibitor of COVID 19 Corona Virus Infection by Molecular Docking Studies . Preprints 2020, 2020030455.

[12]. Arun Dev Sharma, Inderjeet Kaur. Jensenone from eucalyptus essential oil as a potential inhibitor of COVID 19 corona virus infection, Research & Reviews in Biotechnology & Biosciences. www.biotechjournal.in. Volume: 7, Issue: 1, Year: 2020 PP: 59-6.

[13]. Juergens UR, Dethlefsen U, Steinkamp G, Gillissen A, Reppes R, Vetter H (2003) Anti-inflammatory

activity of 1.8-cineol (eucalyptol) in bronchial asthma: a double-blind placebo-controlled trial. Respir Med 97:250–56. <https://doi.org/10.1053/rmed.2003.1432>.

[14]. Merad M, Martin JC (2020) Pathological inflammation in patients with COVID-19: a key role for monocytes and macrophages. Nat Rev Immunol 20:355–362. <https://doi.org/10.1038/s41577-020-0331-4>.

[15] K. J. Senthil Kumar, M. Gokila Vani, Chung-Shuan Wang, Chia-Chi Chen, Yu-Chien Chen, Li-Ping Lu, Ching-Hsiang Huang, Chien-Sing Lai and Sheng-Yang Wang. Geranium and Lemon Essential Oils and Their Active Compounds Downregulate Angiotensin-Converting Enzyme 2 (ACE2), a SARS-CoV-2 Spike Receptor-Binding Domain, in Epithelial Cells. Received: 8 June 2020; Accepted: 17 June 2020; Published: 19 June 2020. Plants

[16] M Grieve, C F Level Mrs, Manya Marshall. A modern herbal : the medicinal, culinary, cosmetic and economic properties, cultivation and folk-lore of herbs, grasses, fungi, shrubs & trees with all their modern scientific uses. New York : Dover Publications, [1982]. www.worldcat.org.

[17]. J Sharifi-Rad, D Mnayer, G Tabanelli, Z Z Stojanović-Radić, M Sharifi-Rad, Z Yousaf, L Vallone, W N Setzer, M Iriti. Plants of the genus *Allium* as antibacterial agents: From tradition to pharmacy. Cell Mol Biol (Noisy-le-grand). 2016 Aug 29;62(9):57-68. <https://pubmed.ncbi.nlm.nih.gov>.

[18]. Pyun M.S., Shin S. Antifungal effects of the volatile oils from *Allium* plants against *Trichophyton* species and synergism of the oils with ketoconazole. Phytomedicine. 2006;13:394–400. doi: 10.1016/j.phymed.2005.03.011. Google scholar.

[19]. Lewis W.H., Elvin-Lewis M.P.F. Medical Botany—Plants Affecting Man’s Health. John Wiley & Sons Ltd.; New York, NY, USA: 1977. Google scholar.

[20]. Bruneton J. Pharmacognosy. 2nd ed. Intercept Ltd.; London, UK: 1999. [Google Scholar]

[21]. Prabodh Satyal, Jonathan D. Craft, Noura S. Dosoky, and William N. Setzer. The Chemical Compositions of the Volatile Oils of Garlic (*Allium sativum*) and Wild Garlic (*Allium vineale*). Foods.2017 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5575638>.

[22]. Bui Thi Phuong Thuy, Tran Thi Ai My, Nguyen Thi Thanh Hai, Le Trung Hieu, Tran Thai Hoa, Huynh Thi Phuong Loan, Nguyen Thanh Triet, Tran Thi Van Anh, Phan Tu Quy, Pham Van Tat, Nguyen Van Hue, Duong Tuan Quang. Investigation into SARS-CoV-2 Resistance

of Compounds in Garlic Essential Oil. ACS Omega. 2020 Apr 14; 5(14): 8312–8320. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7123907>.

[23]. Muhammad Asif, Mohammad Saleem, Malik Saadullah, Hafiza Sidra Yaseen, and Raghdaa Al Zazour. COVID-19 and therapy with essential oils having antiviral, anti-inflammatory, and immunomodulatory properties. Inflammopharmacology. 2020 Aug 14 : 1–9. <https://www.ncbi.nlm.nih.gov/pmc/articles>.

[24]. Kulkarni SA, Nagarajan SK, Ramesh V, Palaniyandi V, Selvam SP, Madhavan T (2020) Computational evaluation of major components from plant essential oils as potent inhibitors of SARS-CoV-2 spike protein. J Molec Struct, <https://doi.org/10.1016/j.molstruc.2020.128823>

[25]. Kumar A, Choudhir G, Shukla SK, Sharma M, Tyagi P, Bhushan A, Rathore M (2020) Identification of phytochemical inhibitors against main protease of COVID-19 using molecular modeling approaches. J Biomol Struct, <https://doi.org/10.1080/07391102.2020.1772112>.

[26]. Pradeep Kumar Yadalam, Kalaivani Varatharajan, K. Rajapandian, Priyanka Chopra, Deepavalli Arumuganainar, Thilgavathi Nagarathnam, Honglae Sohn and Thirumurthy Madhavan. Antiviral Essential Oil Components Against SARS-CoV-2 in Pre-procedural Mouth Rinses for Dental Settings During COVID-19: A Computational Study

Front. Chem., 29 March 2021 | <https://doi.org/10.3389/fchem.2021.642026>

<https://www.frontiersin.org/articles/10.3389/fchem.2021.642026/full#B27>.

[27]. Györgyi Horváth, and Kamilla Ács, Essential oils in the treatment of respiratory tract diseases highlighting their role in bacterial infections and their anti-inflammatory action: a review. Flavour Fragr J. 2015 Sep; 30(5): 331–341.

[28]. Kamyar M. H., United States Patent Application Publication: Essential Oil Diffusion, Patent US20090169487 A1, 02 July 2009.

NIRMITI LABS PVT. LTD.

Established Analytical Testing Laboratory for

GLC, GC-MS, HPLC and HPTLC Testing, Chemical analysis of

- ❖ Fragrances and Flavours
- ❖ Essential oils, Aroma Chemicals, Solvents
- ❖ Aroma Therapy oils including Carrier oils
- ❖ All edible and non edible vegetable oils
- ❖ Active matters in Soaps and Detergents

Analysis offered at competitive prices

Building no 5, Unit no 7, Jogani Industrial Complex,
N. V. Purav Marg, Sion-Chunabhatti, Mumbai - 400 022.
Tel. Off. : 8879697205(M)/022-24050960, Mobile : 9820501422
e-mail : nirmitilab@gmail.com website: www.nirmitilabs.com

PUSHPA FLAVOUR & FRAGRANCE PVT LTD

506, SYNERGY, Mamlatdarwadi Road Extn., Kanchpada, Malad (West),
Mumbai-400064, INDIA.

PH : 022-28811931/32/8380081933

EMAIL : pushpaflav@gmail.com & office.pushpaflav@gmail.com

Distributor in India for -



Fragrance And Flavour Ingredients :

ALDAROME (Adoxal)

ALDEMONE (Precyclemone B)

ACETALDEHYDE

2-ACETYL PYRAZINE

2-METHYL PYRAZINE

2-METHYL-2-PENTENOIC ACID

FURFURYL THIOPROPIONATE

GRAPEFRUIT MERCAPTEN

CILANTRO ALDEHYDE (Trans-2-Dodecenal)

CIS JASMONE

2-ISOPROPYL-4-METHYL THIAZOLE

CIS-6-NONENAL

MELONYL (Melonal)

DIMETHYL SULPHIDE

p-MENTHA-8-THIOL-3-ONE (THIOMENTHONE)

NUTMEG OIL

ORANGE TERPENES(D-LIMONENE)

ORANGE OIL 5 FOLD,10 FOLD

PAMPLEROM (METHYL PAMPLEMOUSSE)

STYRAX RESINOID

TRANS-2-HEXENYL ACETATE

FURFURAL

FURFURYL ACETATE

FURFURYL MERCAPTAN

FURFURYL THIOACETATE

FURFURYL PENTANONE

2-ETHYL-3-METHYL PYRAZINE

BALSAM TOLU/BALSAM PERU

LABDANUM RESINOID

METHYL OAKMOSS (Evernyl)

2-METHYL BUTYRIC ACID

2,3, PENTANEDIONE

SULFUROL

TRANS-4-DECENAL

TRANS-2-HEXENAL

TRANS-2-HEXENOL

PADMA

3-PROPYLIDENE PHTHALIDE

TRANS-2-OCTENAL



INTRODUCING
MATIÈRES PREMIÈRES ESSENTIELLES
FRANCE

PURE NATURAL ESSENTIAL OILS

AMYRIS OIL
ARMOISE OIL BAY SAINT THOMAS CRUDE/RECTIFIED
BUCCHU BETULINA OIL
CAJEPUT OIL
CANANGA OIL
CEDARLEAF OIL
CEDARWOOD OIL VIRGINIA /ATLAS/TEXAS
CLARYSAGE OIL
COPAHU BALSAM OIL
CORIANDERLEAF OIL
CYPRESS OIL
GERANIUM BOURBON REUNION
GALBANUM OIL
GRAPEFRUIT OIL FOLDED 5X/10X
JUNIPERBERRY OIL
LAVANDIN OIL ABRIALIS/GROSSO
LAVANDIN SUPER
LEMON OIL COLD PRESSED
LEMON OIL TERPENELESS
LOVAGELEAF / ROOT OIL
MANDARIN OIL COLD PRESSED – GREEN/YELLOW/RED
MYRRH OIL
NIAOULI OIL
OLIBANUM OIL
PETITGRAIN OIL BIGARADIER /CITRONNIER /MANDARINIER
PIMENTO LEAF/BERRY OIL
ROSE OIL
PINE OIL SACHALINENSIS /SIBERIAN /SYLVESTRIS
ROSEMARY OIL
SAGE OIL OFFICINALIS
SANDALWOOD OIL NEW CALEDONIAN
TAGET OIL
VERBENA OIL
WHITE THYME OIL

ANGELICA ROOT / SEED OIL
BERGAMOT OIL (VARIOUS GRADES)
CADE OIL
CALAMUS OIL
CARAWAY OIL
CHAMOMILE OIL BLUE
CHAMOMILE OIL ROMAN
COGNAC OIL GREEN & WHITE
COPAHU BALSAM RECTIFIED
CORIANDER SEED OIL
CISTUS OIL
GERANIUM OIL EGYPT
GRAPEFRUIT OIL COLDPRESSED
HELICHRYSUM OIL
LAUREL LEAF OIL
LAVANDIN SUMIAN
LAVENDER 40/42, 50/52
LEMON OIL FOLDED 5 X / 10 X
LIME OIL COLDPRESSED / DISTILLED
MARJORAM OIL
NEROLI OIL
MYRTLE OIL
ORIGANUM OIL
PARSLEY HERB / SEED OIL
PERU BALSAM NATURAL
RED THYME OIL
RUE OIL
RHODINOL NATURAL
SWEET ORANGE OIL /5X/10X
SAVORY OIL
TARRAGON OIL
VETIVER OIL
YLANG EXTRA, I /II/III

Exclusive Business Partner in India

PUSHPA FLAVOUR & FRAGRANCE PVT LTD

506, SYNERGY, Mamlatdarwadi Road Extn., Kanchpada, Malad (West),

Mumbai-400064, India.

PH : 022-28811931/32/8380081933

EMAIL : pushpaflav@gmail.com & office.pushpaflav@gmail.com



INTRODUCING
MATIÈRES PREMIÈRES ESSENTIELLES
FRANCE

CONCRETES / ABSOLUTES / RESINOIDS

ALGUES ABSOLUTE	BASIL LINALOOL CONCRETE
BEESWAX CONCRETE/ABSOLUTE	BLACK CURRENT ABSOLUTE
BASIL ABSOLUTE	CASSIE CONCRETE /ABSOLUTE
BENZOIN SUMATRA RESINOID	CIVET ABSOLUTE
BRAN ABSOLUTE/CONCRETE	ELEMI RESINOID
CASTOREUM ABSOLUTE/RESINOID	FENUGREEK ABSOLUTE
COCOA ABSOLUTE	GENET CONCRETE / ABSOLUTE
ENCENS RESINOID	HAY ABSOLUTE
FUCUS ABSOLUTE	JASMIN CONCRETE/ABSOLUTE
GERANIUM ROSAT CONCRETE/ABSOLUTE	LAVENDER CONCRETE/ABSOLUTE
HELYCHRISUM CONCRETE	MARIGOLD CONCRETE/ABSOLUTE
LABDANUM RESINOID	MIMOSA CONCRETE/ABSOLUTE
LAVANDIN CONCRETE/ABSOLUTE	OPOPONAX RESINOID
MATE ABSOLUTE	ORIS BUTTER 8, 11, 15% IRON
MYRRH RESINOID	ROSE CONCRETE/ABSOLUTE
ORANGER CONCRETE/ ABSOLUTE	SON CONCRETE / ABSOLUTE
OSMANTHUS ABSOLUTE	TUBEROSE CONCRETE/ABSOLUTE
SEAWEED ABSOLUTE	VIOLETTEAF CONCRETE /ABSOLUTE
STYRAX RESINOID	
TONKA BEANS ABSOLUTE	
VANILLA ABSOLUTE	

Exclusive Business Partner in India

PUSHPA FLAVOUR & FRAGRANCE PVT LTD

506, SYNERGY, Mamlatdarwadi Road Extn., Kanchpada, Malad (West),

Mumbai-400064, India.

PH : 022-28811931/32/8380081933

EMAIL : pushpaflav@gmail.com & office.pushpaflav@gmail.com

PUSHPA FLAVOUR & FRAGRANCE PVT LTD

506, SYNERGY, Mamlatdarwadi Road Extn., Kanchpada, Malad (West),
Mumbai-400064,INDIA.

PH : 022-28811931/32/8380081933

EMAIL : pushpaflav@gmail.com & office.pushpaflav@gmail.com

EXCLUSIVE IMPORTER & DISRIBUTOR IN INDIA OF -



Reconstituted Oils

LAVENDER OIL
ROSEMARY OIL
GERANIUM OIL DR

LAVANDIN OIL
NUTMEG OIL

BOISE DE ROSE OIL
YLANG YLANG OIL

PETITGRAIN OIL
LIME OIL

STOCK ISTS OF -

1) XIAMEN BESTALLY BIOTECHNOLOGY CO. LTD.

2 ACETYL PYRAZIN
2 ACETYL FURAN
ACETOIN
E-2-M- BUTYRATE
RASPBERRY KETONE
& OTHER FRAGRANCE / FLAVOUR INGREDIENTS

2 ACETYL THIAZOLE
2 ACETYL 5 METHYL FURAN
DIACETYL
FURANEOL
SULFUROL

2 ACETYL PYRIDIN
ETHYL MALTOL
ETHYL BUTYRATE
MALTOL
WATERMELON KETONE

2) SHANGHAI ZUOMING, CHINA

ALPHA DAMASCONE 98%
DAMASCENONE PURE
CIS-3-HEXENYL BENZOATE
CIS-3-HEXENYL ISOBUTYRATE

BETA DAMASCONE 98%
DAMASCENONE TOTAL
CIS-3-HEXENYL BUTYRATE
CIS-3-HEXENYL ISOVALERATE

3) C.V. AROMA, INDONESIA

CLOVELEAF OIL
GURJUN BALSAM OIL
PATCHOULI OIL PURE /STD.

EUGENOL
GALANGAL OIL
NUTMEG OIL

ISO EUGENOL
GUM BENZOIN
VETIVERT OIL

4) INDIAN PURE SPICE ESSENTIAL OILS & OLEORESINS

BLACK PAPPER OIL
CUMINSEED OIL
CORIANDER OIL
GINGER OIL
TURMERIC OIL

CARDAMOM OIL
CELERYSEED OIL
COFFEE EXTRACT
MACE OIL

CINNAMONLEAF OIL
CLOVEBUD OIL
COCOA EXTRACT
NUTMEG OIL



Musks & Fragrance

Indentors for : AROMATIC CHEMICALS & ESSENTIAL OILS

911/A, 'B' Wing, Kanakia Wall Street, Near Holy Family Church, Andheri Kurla Road,
Andheri (East), Mumbai - 400093.(India).

Tel. : +91-22-68151800(100 lines) E-Mail : indentor@muskfrag.com Web : www.muskfrag.com

INDENTORS FOR AROMATIC CHEMICALS & ESSENTIAL OILS

Kindly Contact us for your requirements of

Kanatul-800 [DOP] (SUPER) Di-OCTYL PHTHALATE

Kanatul-200 [DEP] Di-ETHYL PHTHALATE

Kanatul-3200C [TEC] TRI-ETHYL CITRATE

Kanatul-8A [DOA] Di-OCTYL ADIPATE

Kanatul-2A [DEA] Di-ETHYL ADIPATE

Kanabenz[BOH] BENZYL ALCOHOL

Kanabenz[BBZ] BENZYL BENZOATE

Manufactured by

KLJ PLASTICIZERS LTD.

Silvassa, India





Hemani Aromatics

...where fragrance is the only identity

Manufacturers of Industrial Perfumery Compounds for :-

Personal Care

- o Beauty Soaps
- o Body Lotions
- o Creams
- o Hair Oil
- o Shampoos
- o Shaving Aid
- o Talc



Perfume Concentrates

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

Home Care

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



Incense Sticks

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



JASMINE OIL

PRODUCT DETAILS

BOTANICAL NAME	JASMINUM GRADIFLORA
COMMON NAME	"JASMINE"
ORIGIN	NATIVE TO SOUTH ASIA, THE ARABIAN PENINSULA, NORTHEAST AFRICA, THE AFRICAN GREAT LAKES AND REGIONS OF CHINA
PLANT PARTS USED	FLOWERS
EXTRACTION METHOD	STEAM DISTILLATION
COLOR	DEEP BROWN WITH A GOLDEN TINGE VISCOUSE LIQUID
PLANT FAMILY	OLEACEAE FAMILY



(Oman, Saudi Arabia), Northeast Africa (Eritrea, Ethiopia, Djibouti, Somalia, Sudan), the African Great Lakes (Kenya, Uganda, Rwanda), and the Yunnan and Sichuan regions of China. The species is widely cultivated and is reportedly naturalized in République de Guinée, the Maldives, Mauritius, Reunion, Java, the Cook Islands, Chiapas, Latin America, and much of the Caribbean.

CHEMICAL COMPOSITION:-

Its major constituents: Benzyl benzoate-(4.84%), Perhydrofarnesyl Acetone-(4.85%), Heneicosane-(3.12%), Tricosane-(4.00%), Pentacosane- (1.51%), Hexacosane- (2.54%).

ANALYTICAL DETAILS:-

Specific Gravity (20 °C) : **0.945**

Refractive Index (20 °C) : **1.478**

Optical Rotation (Degrees): **-6.5° to +3.5°**

WHAT IS JASMINE OIL?

Jasmine oil is extracted from the flowers of Jasmine. Its scientific names are *Jasminum Grandiflora* (Royal Jasmine) and *Jasminum Officinale* (Common Jasmine). *Jasminum grandiflorum*, also known variously as the Spanish jasmine, Royal jasmine, Catalan jasmine, among others, is a species of jasmine native to South Asia, the Arabian peninsula



It is one of the most powerful, soothing, exotic and pleasant oils available. It is widely accepted for its ability to treat depressed people. This oil is also known to ease childbirth and has been used for many years now. Jasmine oil is also appreciated for its blending properties with other oils. Although

expensive, this oil is preferred by many people around the world. The benefits and effects it has on the skin are innumerable. It is extremely effective in healing wound scars and stretch marks besides helping in treating dry skin. Jasmine oil is non-toxic which is why it is preferred widely. Jasmine essential oil is one of the very active essential oils available with numerous health benefits.

Jasmine essential oil is produced from the jasmine flower plant which has a pleasant romantic but strong fragrance. The jasmine flower plant is popularly associated with poetic romance and stories of love mainly because of its characteristic of blossoming only at night and filling the environment with its romantic aroma, it has also been used in ancient Asia for centuries to reduce pain and create relief.

BENEFITS OF JASMINE OIL:-

❖ SOOTHES FEELINGS OF STRESS AND DEPRESSION

The fragrance of pure jasmine oil **carries** strong aromatic effects that help in stimulating some brain effects that improves the mood of the person in question. The name usually attributed to this method of jasmine essential oil **use is aromatherapy. Many studies on essential oils have recorded that the** jasmine essential oil benefits **help to improve sleep and induce energy.**

❖ MAY HAVE SEDATIVE QUALITIES

Sleep for most people is quickly becoming a forgotten feeling and this may be due to their daily activities and encounters, many people suffer from anxiety, stress, and depression and need an external stimulant for relief. Jasmine essential oil helps to induce sedative hormones through the soothing feeling around the body and the aromatic fragrance. It has been discovered to reduce rate of heartbeat and induce relaxation.

❖ MAY HELP RELAX MUSCLE

In today's medical practice, childbirth and post pregnancy issues have been seen to rise and a fear of child bearing

is everywhere. Jasmine essential oil have been used to relax muscle tightness and cramps (possibly even during labor) and to increase energy by improving respiration and oxygen saturation in the blood. Jasmine oil has also helped to soothe body discomforts in many recovery processes during childbirth.

❖ HELPS REMOVE DARK SPOTS AND IMPROVES SKIN HEALTH

The rashes caused by sweat, skin reactions and other skin infections can be treated using Jasmine essential oil. It will clear skin spots from pimples, acne, eczema, etc. and the component ingredients of this oil enhances skin health and keep the skin smooth and soft. Jasmine oil will fade every kind of blemish away and leave the skin spotless; it will prevent skin infections with regular use.

❖ MASSAGE CREAM

The induced feeling of the jasmine oil that comes with its sweet aroma makes it one of the most qualified massage cream, it helps to relax muscles quickly, relieve pain and stress and induce sleep. It can be mixed with a carrier oil but first allergy and skin reactions have to be checked.

❖ HELPS TO REDUCE SYMPTOMS OF MENOPAUSE

Using jasmine oil either as an aromatherapy treatment or applying it directly to the skin can help decrease emotional and physical symptoms of menopause or work as a natural remedy for menopause relief.

In a study published in the *Journal of Evidence-Based Complementary and Alternative Medicine*, when menopausal women applied jasmine oil to their skin over an eight-week period, they showed improvements in energy levels, mood and menopause-related symptoms, including hot flashes, pain and depression, compared to

women who weren't using jasmine oil.

❖ **MAY BE USED TO IMPROVE QUALITY OF HAIR**

Various chemical shampoo, hair creams, and relaxers which are used in today's beauty world have contributed to the loss of hair quality and beauty. With the use of jasmine oil for hair, infections in the scalp and hair root will be treated and hair color will be replenished. Regular application of this essential oil will keep the hair healthy and strong.

❖ **HELPS IMPROVE IMMUNITY**

The use of jasmine oil in major areas of the body can help prevent infections, these uses includes during sexual activities, used as body lotion and use of jasmine oil for hair. The benzene compounds in jasmine oil will fight any form of bacteria, fungi and virus; respiratory infections will like cold, cough and flu can be treated and controlled with the presence of jasmine oil.

❖ **SUPPORTS BREAST MILK SECRETION**

After childbirth, lactating mothers need to produce enough breast milk for their child, Jasmine essential oil **helps to improve breast milk production and in effect prevent them from dangers of breast tumors or cancer.**

❖ **PREVENTS INFECTIONS**

Jasmine flowers are known to have antiviral properties, as per a recent study published in the Journal of Ethno pharmacology. Jasmine essential oil is also a very good antiseptic and disinfectant. Its constituents like benzaldehyde, benzoic acid, and benzyl benzoate have very effective germicidal, bactericidal, fungicidal, antimicrobial, and antiviral properties. When externally applied to wounds, it prevents them from becoming septic and effectively eliminates

potential infections from tetanus. It can also have internal applications, and when inhaled, it is known to reduce infections in the respiratory system and can relieve colds and coughs.

❖ **REDUCES COUGH**

The expectorant property of jasmine essential oil can help you have an undisturbed night of sleep, even when you are suffering from a cough or cold. It provides relief from a cough by helping clear out the accumulation of phlegm in the respiratory tracts. It also eliminates snoring by clearing the congestion from nasal and respiratory tracts. With jasmine essential oil working in your system, you will be kept away from coughing and snoring endlessly through the night.



❖ **PROMOTES & EASES CHILDBIRTH**

The essential oil of jasmine facilitates and eases parturition and reduces labor pains. This feature can be very beneficial in today's situations when a normal delivery is a rare sight and most of the cases are handled with cesarean sections. For many women who choose to use jasmine essential oil, they find that the recovery process is less painful and the post-natal period is also shorter. Furthermore, it can strengthen contractions and shorten the time it takes to deliver a baby. At that point, many women suffer from post-partum depression, but jasmine

essential oil also combats that tragic condition due to its antidepressant and uplifting qualities.

❖ **PROTECTS THE UTERUS**

This oil is good for uterine health because it tones the uterus and promotes the secretion of certain hormones which ensure good health and proper functioning of the organ. It also helps protect the uterus from tumors, particularly after menopause, by restricting the flow of estrogen.

❖ **BOOST CONCENTRATION**

Jasmine oil is scientifically known for its stimulating and arousing properties. Diffusing jasmine oil or rubbing it onto your skin can help wake you up and boost energy. Its active ingredients have been shown to increase heart rate, body temperature and brain activity that are needed for active learning and problem solving.



IS JASMINE OIL SAFE?

Jasmine oil is generally considered safe and nonirritating, and reports of skin irritation are very rare. Like any plant, there is always the risk of an allergic reaction. Essential oils must be diluted in a carrier oil before applying to the skin. Essential oils are not meant to be ingested and some are toxic.

You should test new products by placing a small amount of diluted oil on a patch of skin on your forearm. If there's no reaction in 24 hours, it should be safe to use.

If you are pregnant or nursing, or have a history of severe allergic reactions, speak to a doctor before using any essential oil.

OIL PROPERTIES

- ❖ Jasmine essential oil has a sweet, exotic and richly floral smell.
- The more common species - *Jasminum grandiflorum* (also known as royal jasmine, Spanish or Catalonian jasmine or jati) is also used for essential oil extraction, but our 25% blend is made from *Jasminum officinale*.

SIDE EFFECTS OF JASMINE OIL:-

- ❖ Jasmine oil is generally considered safe and non-irritating, but there's always a risk for allergies or irritations occurring whenever you use essential oils. Especially if you're new to using essential oils or have sensitive skin, make sure to start with a small amount and try diluting it with carrier oils.
- ❖ Always conduct a skin patch test first to check if you are allergic to this herbal oil. If you currently have a terminal or chronic illness, it is best to consult first with a medical professional before applying this essential oil.
- ❖ Though many people have benefitted from using this great oil, it may cause mild allergic reaction to some. This may be due to the presence of benzyl acetate in massive amounts in jasmine oil. In such cases, it is advised not to use it. If symptoms of any allergic reactions persist, please consult a doctor. It is also recommended not to use jasmine oil during pregnancy.
- ❖ Jasmine has an intense aroma that's very flowery, so some people prefer to mix it with other oils to prevent it from becoming overpowering. In a small group of people, jasmine oil might cause headaches, skin reactions or nausea due to its strength.



- ❖ As with all essential oils, jasmine oil should never be taken internally, even though you may see this recommended elsewhere. Essential oils are highly concentrated and can cause permanent damage if used in this way, even if you think you have diluted them. Be safe and use them as intended, in massage blends and diffusers, and keep them out of the reach of children at all times.
- ❖ Women should avoid using this oil until parturition since it is an emmenagogue. It is highly relaxing and sedating and thus heavy doses should be avoided.
- ❖ Speak with your doctor before using essential oils if you're pregnant, nursing or experiencing hormone-related problems. Jasmine oil has an effect on hormones due to its phytoestrogen effects, so it's always smart to air on the side of caution.

PRECAUTIONS:-

Jasmine oil is non-toxic, non-irritant and generally non-sensitizing, although some people do have an allergic reaction to the oil. Due to its emmenagogue properties it should not be used in pregnancy. Using too much of this oil could impede concentration, as it is a deeply relaxing oil.

THERAPEUTIC PROPERTIES:

The therapeutic properties of jasmine oil are anti-depressant, antiseptic, aphrodisiac, anti-spasmodic, cicatrisant, expectorant, galactagogue, parturient, sedative and uterine.

HOW DOES JASMINE OIL WORK?

Jasmine absolute oil works in different ways, depending on how you need it. It can be inhaled, diffused or can be simply applied externally.

THE FOLLOWING ARE SOME WAYS TO USE YOUR JASMINE ABSOLUTE OIL.



❖ THROUGH A DIFFUSER:

Just add some drops of the essential to your diffuser to provide relaxing and refreshing fragrance to your home.

❖ EXTERNAL APPLICATION:

Apply a few drops of the oil on your neck or forehead to calm and clear your mind, or to feel a surge of hope and happiness.

Applying it topically can also treat skin disorders and muscle spasms.

❖ INHALATION:

Jasmine absolute oil also aids coughs and relieves nervousness and stress when inhaled.

ABSTRACT:

Jasmine essential oil has been studied and widely used for many centuries in many countries throughout the world. However, relatively little is explored about jasmine essential oil application. Here, we produced essential oil of jasmine by hydro distillation method. The effect of distillation time, distillation temperature, feed size, water-raw material ratio to the yield of the distillation process was analyzed and recorded. With 6 hours, 1200 C, grind fresh and ratio of 2:1 the yield was 0.092%. Antibacterial compounds of Jasmine essential oil were determined by measuring Gas Chromatography-

Mass Spectrometry equipment. Jasmine essential oils are applied to develop the facial cleanser product that is safe for human. Jasmine facial cleanser will be a new product in Viet Nam's cosmetic with many potentials.

REFERENCES:-

- HIEN T T, NHAN N P T, TRINH N D, HO V T T AND BACH L G 2018 SOLID STATE PHENOMENA 279 217-21.
- NHAN N P T, HIEN T T, NHAN L T H, ANH P N Q, HUY L T, NGUYEN T C T, NGUYEN D T AND BACH L G 2018 SOLID STATE PHENOMENA 279 235-9 ICMEMSC 2018 IOP CONF. SERIES: MATERIALS SCIENCE AND ENGINEERING 542 (2019) 012057 IOP PUBLISHING DOI:10.1088/1757-899X/542/1/012057 5 .
- TRAN T, NGUYEN H, NGUYEN D, NGUYEN T, TAN H, NHAN L, NGUYEN D, TRAN L, DO S AND NGUYEN T 2018 PROCESSES 6 206.
- MAI H C, LE T T T, DIEP T T, LE T H N, NGUYEN D T AND BACH L G 2018 ASIAN JOURNAL OF CHEMISTRY 30 293-7.

- YS CHOI, HS SUH, MY YOON, S U MIN, JS KIM, J Y.JUN, JOURNAL OF DERMATOLOGICAL TREATMENT 21 201-205 2010/05/01 2010.
- JANANYA SAMPUNTHARAT, P BOONKOO INTERNATIONAL JOURNAL OF CLINICAL DERMATOLOGY & RESEARCH, 3 60-64 2015.
- K P WILHELM, A B CUA, H H WOLFF, AND H I MAIBACH, JOURNAL OF INVESTIGATIVE DERMATOLOGY, 101 310-315 1993.
- WSAYOWAN, V SIRIPORNANICH, T HONGRATANAWORAKIT, N KOTCHABHAKDI, AND NRUANGRUNGSI, J HEALTH RES 27 2013.
- PERSONAL DISCUSSION WITH PROFESSOR DR.SUDHA JAIN, DR.SHAKTI VINAY SHUKLA (FFDC), DR.ALOK KALRA (CIMAP).



YOGESH DUBEY

Rakesh Group (President)
Essential Oil Association of
India (President)

RAW MATERIALS FOR PERFUMERY COSMETIC / SOAP / SHAMPOO / DETERGENT / AGARBATTI / ESSENCE / FLAVOUR DI PROPYLENE GLYCOL DOW / S K KOREA / SHELL PROPYLENE GLYCOL PURE (Available in small packing) (5-25-35kg)

Acetone	Carbopol 934/940	SLS Liquid / Powder / Needle
Amyl Acetate / ISO Amyl Acetate	Chloroform	(Silicone Oil (10 to 1,00,000 CST
Balsam tolu	Citronella Oil	(Tween 80/60/20 (Polysorbate 80
Benzyl Alcohol FFC	Di ethanolamine 99%	White oil/ Wax Paraffin
Butyl Acetate	(Di ethylene Glycol (Digol	Tri ethyl citrate
(ISO Butyl Acetate (Tert	Di ethyl Phthalate	Vanilline Ethyl
(N-Buty Alcohol (Secondary	Di pentine	Emulsifier x-100/4.5/9.5 Moles
(Butylated Hydroxy Anisole (BHA	(.Dioctyl phthalate (D.O.P	Ethyl Acetate
(Butylated Hydroxy Toluene (BHT	EGMS NSE	Fructose
Camphor	Eucalptus Oil	Glycerine Pure / IW
Camphor Oil	Ether Petroleum 40-60/60-80/80-100	Hexylene Glycol
(Carbitol (Ethyl	Sorbitol liquid	(Iso Propyl Alcohol / Either (IPE
(Carbolic Acid Crystal / liqid (Phenol	Tea Tree Oil	Iso Propyl Myristate
Menthol Bold	Terpienol EP	Jojaba Oil
Monoethanolamine (MEA) 99%	Triethanolamine	Lauryl Alcohol 98%
Methyl Salicylate	(Triethylene Glycol (TEG	(Liquid Paraffin light (Heavy
Orange Oil	TRO 50% / 75%	Pine Oil
P E G – 200/400/600/4000/6000		Propylene Glycol/Di Propylene Glycol

CHEMKART

201-A, NANDADEVI APT, 2ND FLOOR, PRABHAT COLONY ROAD, NR. YATRI HOTEL, SANTACRUZ (E), MUMBAI - 400 055
Mobile No 87790 24737 / 98333 96596; Email : shaileshpaj@gmail.com



THE ANTHEA GROUP
Fine Chemistry. Better Products.

FINE AROMA PRODUCTS FOR THE FINEST PERFUMES

GROUP COMPANIES



ANTHEA AROMATICS
RESEARCH-DRIVEN



DRT-ANTHEA
AROMA CHEMICALS



CROWN CHEMICALS
SUSTAINABLE CHEMISTRY



CATaSYNTH
SPECIALITY CHEMICALS

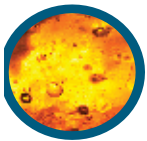
PRODUCTS

- Anthamber® (Iso E Super)
- Boisamber
- Dihydromyrcenol
- Ethyl Safranate
- Florether (Anther)
- Geraniol
- Lilivol
- Linalool
- Nerol
- Synthetic Piperonal (Heliotropin)
- Verdantal (Vertral)

Corporate Office:

502/503, Sigma IT Park, Rabale MIDC,
Navi Mumbai - 400 701, INDIA.
info@anthea-aromatics.com

www.anthea-aromatics.com



RESINS



PHARMA



FLAVORS & FRAGRANCES



FOOD & BEVERAGES



PAPER CHEMICALS



RUBBER



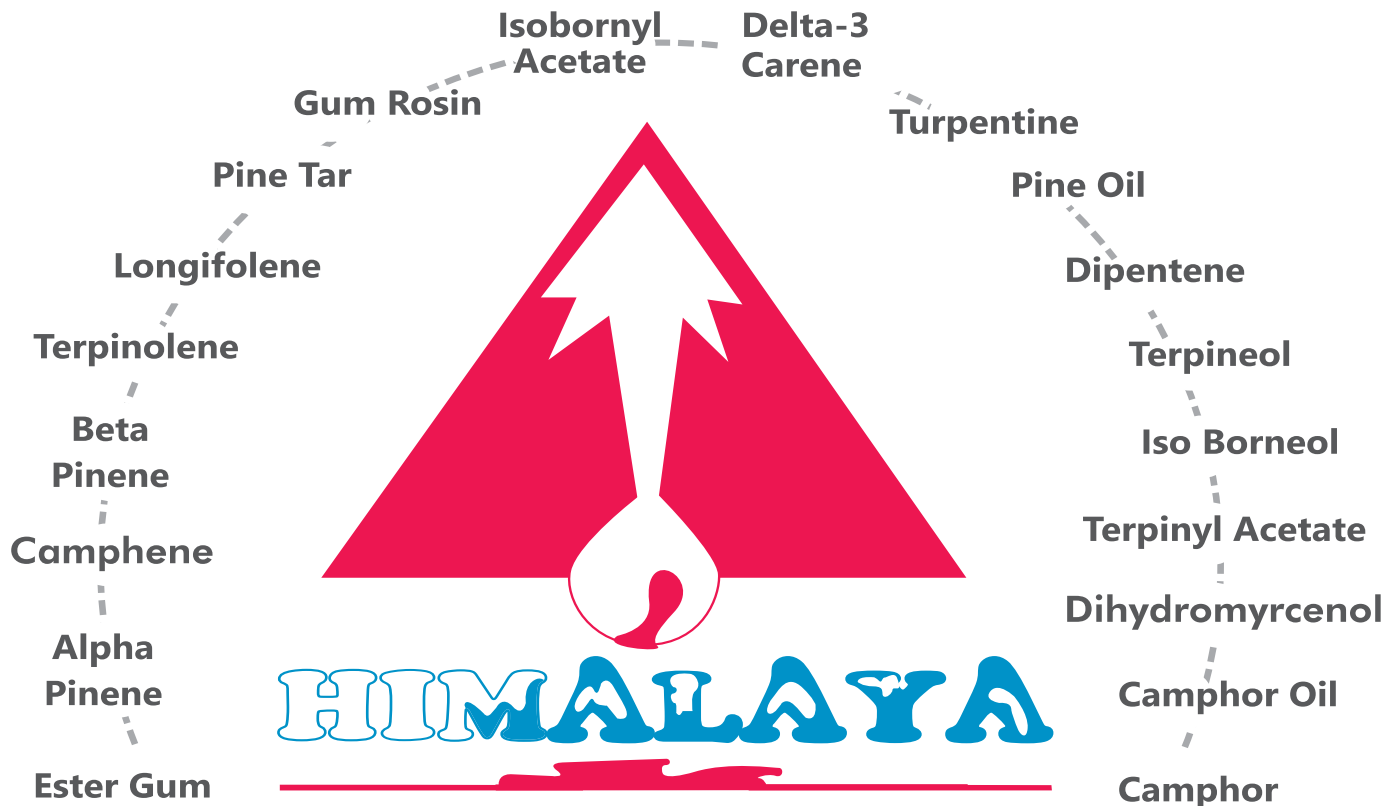
PAINTS & COATINGS



SOAPS & DETERGENTS



ADHESIVES & PRINTING INKS



HIMALAYA

TERPENES PVT. LTD.

" Delivering Quality Pine Chemicals since 1971 "



GREEN PINE INDUSTRIES

Govt. of India Recognized Star Export House

Resin Division

103/2, Railway Rd, Rishikesh 249201 Uttarakhand India

Terpene Division

Plot No 109-110, Shiv Ganga Industrial Estate, Bhagwanpur, Roorkee, Uttarakhand -247662, India

Corporate office,

201/5, Jogani Industrial Estate, V N Purav Marg, Chunabhatti, Mumbai - 400022.

T : +91-22-24056704/ 05

F : +91-22-24056700

E : info@himalayaterpene.com

www.himalayaterpene.com / www.greenpine.in





Speciality Aroma Ingredients for Flavours & Fragrances

We specialize in

ANISYL ACETONE

VANILLYL ACETONE

6-METHYL COUMARIN

PROPENYL GUAETHOL

RESORCINOL DI METHYL ETHER

VERATRALDEHYDE

THIOMENTHONE

p-VINYL GUAIACOL

CARYOPHYLENE OXIDE

4-MERCAPTO-4-METHYL-2-PENTANONE

3-MERCAPTO HEXANOL

2-METHYL-4-PROPYL-1, 3-OXATHIANE

4-METHYL-5-VINYL THIAZOLE

MENTHYL LACTATE

4-METHYL THIAZOLE

AROMA AROMATICS & FLAVOURS

67-68-69, Baddi Industrial Area, Baddi, Distt. Solan-173205 (H.P.) India

Tel.: +91-1795 244431 Fax: +91-1795 244430

E-mail: aromabaddi@gmail.com, Website: www.aromaaromatics.com

Head Office : New Delhi Fax: +91 - 11-26386485

E-mail: rohit@gogia.com, Website: www.gogia.com

KALPAKA VRUKSHA, A GOD'S GIFT

Thushara T V & APK Padmanabhan
Padmasree Nivas, Karippal, 670581

INTRODUCTION

Coconut {Cocos nucifera}, kalpaka vruksha is God's gift to mankind, nothing of a palm is a waste, indeed a tree of abundance and heaven! Coconut is consumed to lead a sound, healthy & active life. It is indispensable in day today life from birth to death. In all religious and social functions its presence is very auspicious one.

Tall elevated up to 30 meters height, kissing the sky with bunch of coconuts from an vast area indeed a very picturesque and beautiful sight to watch attracting eco-tourism.

CULTIVATION AND PRODUCTION

Coconut is a major and commercial crop in India. Especially in southern states, Kerala is producing 40% of coconut in the country. Tamil nadu, Karnataka, Odessa, Gujarat, Maharashtra also emerged as a leading states in production. It is estimated 13000 million nuts are produced from an area 1.million ha. Other major producing countries are Indonesia, Thailand, Philippines, China, Vietnam, Mexico and Sri Lanka. Indonesia is the world leader of coconuts production. Coconut is grown in 90 countries over 11 million hectares and 80 million people depend upon on coconuts and processing for their lively hood. India's share 15 percent of world area and produce about 25percent of world coconut production.

SCOPE

A lion production of coconuts in India are consumed domestically for food preparation and extraction of oil and very small quantity of coconut is exported to gulf countries. In recent time there is a reduction of coconut production in India. It is because of unforeseen fluctuations in climatic conditions, global warming, tsunami, floods, insects and pest attack etc. causing the cultivation and production of coconuts. Also more area of coconut cultivated

lands are often converted for other development and construction activities.

However the government is taken many steps to increase the area of coconut cultivation and diversification of production programs including schemes for introducing value addition products to gain more profit to the farmers. At this juncture only selling coconuts is not going to benefit the farmers. What is needed is to diversification of manufacturing value added materials to cater various industrial applications and exports to fetch more profit and thereby improving the financial position of agriculturist and nation as well. There is scope of preparing 60 by-products from coconut palm.

Bias and prejudice is overheard on some ill effects of using coconut oil which was rejected by the experts and scientific community and clarified the doubt saying coconut oil is beneficial for maintaining human health. Professor Hegde clarified that coconut oil is a functional food that gives you calories and Increase health and life.

Coconut contains:-

Protein	4.5%	Calcium	0.01%
Fat	41.8%	Phosphorus	0.24%
Carbohydrate	13%	Iron	1.7%
Fiber	3.6%	Minerals	1.0%

VALUE ADDED PRODUCTS AT A GLANCE

More than 50 products are prepared from coconut palm.

A) From coconut Kernel & coconut Water:

Tender coconut, Tender coconut water, Coconut juice, Neera, Toddy, Arac, Jaggary, Sugar, Coconut cream, Coconut butter, Coconut syrup, Coconut hammy, Coconut snowball, Chopra, Vinegar, Coconut oil, Virgin coconut oil, Roasted copra, Coconut milk, Coconut milk powder,

Desiccated coconut powder, Coconut chips, coconut butter ect.

B) From coconut husk:

Husk fiber, Husk coir, Husk mat, Husk brick, Geotextile (for preventing soil erosion), net, Bags, Rope, Manure etc.

C) From coconut wood:

Crates, Wood, Furniture, Roof material, Arts and crafts, Fuel etc.

D) From coconut shell:

Charcoal, Activated carbon, Shell powder, Art and handicraft etc.

E) From coconut leaves:

Baskets, Hats, Shade, Roofing material, Brooms, Tooth sticks etc.

APPLICATIONS

Virgin coconut oil {VOC} is very popular in USA & other western countries. They regularly take one teaspoon VOC as a tonic! It is good for blood sugar, diabetics, control blood cholesterol, stop heart disease, blood pressure, boost energy & aids digestion.

Commercial coconut oil is widely used in all cooking medium, Quality bathing soaps & detergents in spite of cheaper other oils available in the market, they manufacturer prefer coconut oil for their quality products. Hair oils, massage oils, baby oils are also prepared from coconut oil. It is also used in ayurvedic

medicines. Coconut water is sweet and it is so natural and can replace synthetic soft drinks. Neera also is a healthy and nutritious beverage emerging commercial importance. Coconut oil also used in cosmetics & herbal oils preparation and aroma therapy. Vinegar prepared from coconut water is an excellent natural product for preparations of many products which improve human health conditions. Coconut products like coco candies, biscuits and confectionary and chocolates are marketed successfully.

Coconut oil is a source of many oleo-chemicals like fatty acids, glycerol, methyl esters, fatty alcohol, etc. useful for many industrial applications.

Flavor and perfumery industries can contribute natural flavors and natural colors for the preparation of coconut products that may improve consumer acceptance and for more sales promotions and development. The natural flavors and natural colors adding in the products will definitely improve the export to foreign countries.

CONCLUSION

As a matter of fact the Central and State research organizations and agricultural departments are conducting research works on coconut individually which are of similar types. This could be avoided by proper coordination and cooperation in between them to achieve the result which will save a lot of project cost and time and there by the beneficiaries will get the fruits at the earliest

FRAGRANCE FOREVER

M/S. D.G. GORE

MANUFACTURERS OF INDUSTRIAL FRAGRANCES

31, MANGALDAS ROAD,
MUMBAI - 400 002

Tel. 2208 09 09, 2206 6346
Fax: 2208 34 08

Email: dgore@dggore.com

B B K

SPECIALITIES

Manufacturers of

SAFRANAL 100%

BBK House, Plot No. C-341, TTC, Industrial Area,
Nr. Dhirubhai Ambani Knowledge City, MIDC- Pawne,
Navi Mumbai - 400 705.

Ph.: 07738899993, 09323143129, 09820066631

Email: kamalkesar100@gmail.com

Website: www.bbkspecialities.com

Givaudan
fragrance ingredients



engage your senses

Soofi

Trust • Values • Performance | **Since 1970**

Celebrating

fifty  years

Committed to Integrity

SOOFI TRADERS

Authorised Distributors in India

Address : B Wing, 601, Kohinoor City Commercial 1, Kiroh Road, Kurla West, Mumbai 400070, INDIA.

T : +91-22-41686900/01 • E : sales@soofi.in • W : www.soofi.in

APUA 1880

CITRUS

Essential Oils
& Specialities

Bergamot

Blood Orange

Lemon

Lime

Mandarin

Neroli Phase

Tangerine etc



Soofi

Trust • Values • Performance | Since 1970

Celebrating

fifty years

Committed to Integrity

SOOFI ENTERPRISES ■ SOOFI TRADERS

Indenting Agents, Importers & Distributors

Address : B Wing, 601, Kohinoor City Commercial 1, Kirool Road, Kurla West, Mumbai 400070, INDIA.

T : +91-22-41686900/01 • E : sales@soofi.in • W : www.soofi.in

PRODUCTS FOR F & F INDUSTRY



Soofi

Trust • Values • Performance | Since 1970

Celebrating

fifty years

Committed to Integrity

SOOFI ENTERPRISES ■ SOOFI TRADERS

Indenting Agents, Importers & Distributors

Address : B Wing, 601, Kohinoor City Commercial 1, Kirof Road, Kurla West, Mumbai 400070, INDIA.

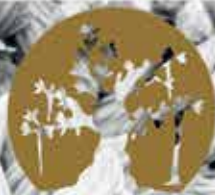
T : +91-22-41686900/01 • E : sales@soofi.in • W : www.soofi.in

OUR PRINCIPALS



Givaudan





RAKESH PRODUCTS

Star Export House Recognized by Govt. of India

SERVING THE WORLD SINCE 1972

Natural Essential Oils, Aromatherapy Oils & Carrier Oils

Certified for: US-FDA,WHO-GMP,ISO,HACCP,FSSAI,KOSHER,HALAL & ORGANIC Certified (EXPORT AWARD WINNER)

ESSENTIAL OILS

AJOWAIN SEED OIL	CARDAMOM OIL	GALANGAL OIL	LAVENDER OIL	OREGANO OIL	SAFFRON OIL	WINTER GREEN OIL
AMBRETTE SEED OIL	CARROT SEED OIL	GERANIUM OIL	LEMON GRASS OIL	ORIGANUM OIL	SPEARMINT OIL	WORM WOOD OIL
ANGELICA ROOT OIL	CEDAR WOOD OIL	GINGER GRASS OIL	LEMON BALM OIL	PALMAROSA OIL	SUGANDH KOKILA OIL	YARA YARA OIL
ANISE OIL	CELERY SEED OIL	GINGER LILY OIL	LEMON OIL	PASSION FLOWER OIL	SUGANDHMANTRI OIL	YLANG YLANG OIL
AROMISE OIL	CINNAMON LEAF OIL	GINGER OIL	LIME OIL	PATCHOULI OIL	TAGETES OIL	YARROW OIL
ARTEMISIA OIL	CITRONELLA OIL	GRAPE FRUIT OIL	LITSEA CUBEBA OIL	PIPER CUBEBA OIL	TANGERIANE OIL	ZADOERIA OIL
BASIL OIL	CLARY SAGE OIL	GUAIC WOOD OIL	MACE OIL	PEPPERMINT OIL	TERRAGAON OIL	
BAY OIL	CLEMENTINE OIL	HYSSOP OIL	MANDARIN OIL	PETITGRAIN OIL	TEA ROSE OIL	
BERGAMOT OIL	CLOVE OIL	HEDYCHIUM OIL	MARJORAM OIL	PIMENTO BERRY OIL	TEA TREE OIL	
BETEL LEAF OIL	CURRY LEAF OIL	HOPS OIL	MYRRH OIL	RAVENSERA OIL	THUJA OIL	
BLACK PEPPER OIL	CYPRESS OIL	HOO WOOD OIL	NAGARMOTHA	RED THYME OIL	THYME OIL	
BLUE CHAMOMILE OIL	DAVANA OIL	JASMINE OIL	NIAOULI OIL	ROSE OIL	TOMAR SEED OIL	
CADE OIL	ELEMI	JATAMANSHI OIL	NIROLI OIL	ROSEMARRY OIL	TURMERIC ROOT OIL	
CAJUPUT OIL	EUCALYPTUS OIL	JUNIPER BERRY OIL	NUTMEG OIL	ROSE WOOD OIL	VALERIAN OIL	
CALAMUS OIL	FENNEL OIL	KAPUR KACHARI OIL	ORANGE OIL	ROSE PETEL OIL	VANILLA OIL	
CALENDULA OIL	FRANKINCENSE OIL	LABDANUM OIL	OLIBANUM OIL	SAGE OIL	VETIVER OIL	

VEGETABLE / CARRIER OILS

ARGAN OIL	BLACK CUMIN OIL	FLAX SEED OIL	MORINGA OIL	SPINACH OIL
ALMOND OIL	BORAGE OIL	GRAPE SEED OIL	NEEM OIL	PEACH OIL
ALOE VERA	CASHEW NUT OIL	GUAVA OIL	ONION OIL	WALNUT OIL
APRICOT OIL	CHAULMOGRA OIL	HAMP SEED OIL	PRICKLY PEAR OIL	WATER MELON OIL
ARGAN OIL	CHIRAUNJI OIL	HAZEL NUT OIL	POMEGRANATE OIL	WHEAT GERM OIL
AVOCADO OIL	CUCUMBER OIL	JOJOBA OIL	PUMPKIN OIL	
BAWCHI OIL	EVENING PRIMEROSE OIL	MACADAMIA OIL	ROSEHIP OIL	

INDIAN PERFUMES

AGARIYA BLACK	DARBARIYA	KEWARA-RW	RAAT KI RANI
AGARIYA GREEN	DHANALUD SSL	MAJMUA -RT	ROSE -RN
AMBERIYA	DIWANIYA	MASTI-RN	SAMAMA MH-26
AQUAMARIYA	FIRDOUS-RL	MASTI-RB	VALLEY-RW
BOUQUET-RZ	GUL HINA	MAULSHREE	ZAFRAN
CHAMELI GREEN	HINA-1-2-3	MITTI ATTAR	
CHAMPA GREEN	JASMINE-R6	MUSK RSI	

FLORAL WATER

BASIL	LAVENDER	ROSE PETAL
FULWARI	LEMON	SANDELKA PLUS
GINGER	LEMON GRASS	TUEMERIC
JASMINE	ROSE MARY	



OUR GROUPS



RAKESH SANDAL INDUSTRIES

25, Azad Nagar, Kanpur-02 (U.P.), India

Mob: +91-7388233330/31/34/36/39

Email: info@rakeshsandal.com | info@rakeshin.com Web: www.rakeshin.com



MARKET INDICATORS

SR. NO.	NAME OF THE ITEM	(CURRENT) NOVEMBER 2021	FUTURE TREND
1	A.C.H.P.	875	≈
2	ALDEHYDE C - 10	525	↑
3	ALDEHYDE C - 11	1700	≈
4	ALDEHYDE C - 12 LAURIC	575	≈
5	ALDEHYDE C - 12 MNA	900	≈
6	ALDEHYDE C - 18	675	≈
7	ALDEHYDE C - 8	575	↑
8	ALDEHYDE C - 9	1250	↑
9	ALLYL AMYL GLYCOLATE	675	≈
10	ALLYL CAPROATE	700	↑
11	ALPHA DAMASCONE	5500	↑
12	AMBROXAN / AMBERMOR -EX (AROMOR)	33000	≈
13	AMYRIS OIL	7500	≈
14	ANETHOL SYNTHETIC	1100	↑
15	AQUAMOR/ CALONE / WATER MELON KETONE	14500	≈
16	ARMOISE OIL	13000	↑
17	BACDANOL	1650	↑
18	BALSAM PERU	1800	↑
	BALSAM PERU PURE	4500	↑
19	BALSAM TOLU	3000	↑
20	BENZYL SALICYLATE	375	↑
21	BERGAMOT OIL	20000	≈
22	BETA DAMASCONE	15000	≈
23	BLUE CHAMMOMILE OIL	115000	≈
24	BOISAMBRENE FORTE / AMBERWOOD F	2200	≈
25	BRAHMANOL - F	5950	≈
26	BUCCOXIME	31000	≈
27	BUCHU OIL BETULINA	165000	≈
28	C.P.D/CYCLOPENDECANLIDE	2600	≈
29	CASSIA OIL	1250	≈
	CASSIA OIL (NATURAL)	2200	≈
30	CEDAR LEAF OIL (THUJA OIL)	12000	≈
31	CEDARWOOD OIL (TEXAS)	2500	↑
32	CEDARWOOD OIL HIMALYAN RECTIFIED	825	↑
33	CEDARWOOD OIL VIRGINIA	3100	↑
34	CEDRYL ACETATE LIQUID	1025	↑
35	CINNAMIC ALCOHOL	600	≈
36	CINNAMIC ALDEHYDE	295	≈
37	CINNAMON BARK OIL	16500	≈
38	CINNAMON LEAF OIL	2500	≈
39	CIS 3 HEXENOL	26000	↑
40	CIS 3 HEXENYL ACETATE	24000	↑



MARKET INDICATORS

Sr. No.	NAME OF THE ITEM	(CURRENT) NOVEMBER 2021	FUTURE TREND
41	CIS 3 HEXENYL SALICYLATE	17000	↑
42	CIS JASMONE	10500	≈
43	CITRONELLA OIL (ASSAM)	1100	≈
44	CITRONELLOL	725	↑
45	CLARY SAGE OIL	19000	≈
46	CLOVE OIL REC 85%	1200	≈
47	CLOVE TERPENES	300	≈
48	COGNAC OIL GREEN	32000	≈
49	CORIANDER LEAF OIL	6500	≈
50	CORIANDER SEED OIL	8500	≈
51	CYCLAMEN ALDEHYDE	1100	≈
52	CYCLOGALBANATE/ ISO ANANATE	1300	≈
53	CYRESS OIL SPANISH	6000	≈
54	D-LIMONENE (ORANGE TERPENES)	450	↑
55	DAMACENONE TOTAL	32000	≈
	DAMACENONE	56500	≈
56	DIHYDROMYRCENOL	725	≈
57	DIMETOL	1300	≈
58	DMBCA	700	≈
59	ETHYL 2 METHYL BUTYRATE	750	↑
60	ETHYL MALTOL	1750	↑
61	ETHYL VANILLIN CHINA	2300	↑
62	EUCALYPTUS OIL 60 %	975	≈
63	EUCALYPTUS OIL 80 %	1150	≈
64	EVERNYL	4300	↑
65	FIR NEEDLE OIL SIBERIAN	4750	≈
66	GALAXOLIDE - DEP 50%	650	↑
67	GALBANUM OIL	30000	≈
68	GERANIOL	875	≈
69	GERANIUM OIL CHINESE	14000	≈
70	GERANIUM OIL EGYPTIAN	8000	≈
71	GUAIACWOOD ACETATE	4500	↑
72	GUAIACWOOD OIL	4300	↑
73	HEDIONE / MDJ	1500	↑
74	HELITROPIN	3000	≈
75	HERCOLYN - D / FORALYN	650	↑
76	HEXYL CINAMIC ALDEHYDE	400	≈
77	HEXYL SALICYLATE	425	≈
78	HYDROXY CITRONELLOL	1600	↑
79	INDOLE	1400	↑
80	ISO DAMASCONE	13000	≈
81	ISO E SUPER	725	↑
82	ISO EUGENOL	1800	≈



MARKET INDICATORS

Sr. No.	NAME OF THE ITEM	(CURRENT) NOVEMBER 2021	FUTURE TREND
83	LABDANUM ABSOLUTE	20000	≈
84	LAVANDIN OIL GROSSO	3500	≈
85	LAVENDER OIL BULGARIAN	11000	≈
86	LAVENDIN OIL ABRALIS	5000	≈
87	LEMON OIL C.P.	3500	≈
88	LIME OIL CP	4500	≈
89	LIME OIL DISTILLED MEXICAN	5500	≈
90	LINALOOL	1250	↑
91	LINALYL ACETATE	1350	↑
92	LYRAL/ KOVYRAL	1700	↑
93	LYSMERAL	675	↑
94	MALTOL	1800	↑
95	MANDARINE OIL GREEN	9500	≈
96	METHYL BETA NAPHYL KETONE(ORANGE CR)	850	↑
97	MUSK AMBRETTE	1850	↑
98	MUSK KETONE	1750	↑
99	MUSK T	750	↑
100	MUSK XYLOL	1100	↑
101	NEROLI OIL NATURAL	250000	≈
102	OAKMOSS ABSOLUTE	24500	≈
103	ORANGE OIL COLDPRESSED BRAZIL	850	↑
104	OREGANUM OIL	9000	≈
105	PADMA	800	≈
106	PATCHOULI OIL	3700	↑
107	PETITGRAIN OIL	6500	↑
108	PHENYL ACETALDEHYDE 85%	1000	≈
109	PHENYL ETHYL ALCOHOL	340	↑
110	PIMENTO BERRY	12000	≈
111	RASPBERRY KETONE	1750	↑
112	RESINOID LABDANUM	1450	≈
113	ROMAN CHAMMOMILE OIL	98000	≈
114	ROSE OXIDE INACTIVE	2500	≈
115	ROSEMARY OIL SPANISH	6500	≈
116	SANDENOL CHINA / ICCH	1000	≈
117	TONALIDE PFW	1400	↑
118	VANILLIN CHINA	2400	↑
119	VERTOFIX COEUR CHINA	1700	↑
120	VERTOFIX METHYL CEDRYL KETONE-CHINA	1700	↑
121	VETIVERYL ACETATE	42000	≈
122	VETIVER OIL HAITI	20000	≈
	Intpretation of symbols;		
	Possible price increase ↑		
	Possible price decrease ↓		
	Price Stable ≈		

Rumit K. Shah

Labdanum

Gum Resinoid Absolute Ambreine Cistus

Aromatic Fine Chemicals

Alpha Pinene	Fenchone Laevo
Alpha Terpinene	Fenchone Dextro
Beta Pinene	Fenchyl Acetate
Bornyl Laevo Acetate	Fenchyl Alcohol
Borneol Laevo Pure	Gamma Terpinene

Spanish Essential Oils

Cade	Origanum
Cistus	Pennyroyal
Cypress	Rosemary
Spike Lavender	Rue
Fennel	Sage
Lavandin	Thyme

Destilerías Muñoz Gálvez S.A.
Since 1920 (Spain)

*Be Different
Be Spanish!*

*Hola! welcome the
Citrus family from Spain!!*

Bergamot Oil	Lime Oil
Grapefruit Oil	Mandarin Oil
Lemon Oil	Orange Oil

Sole agents in India



117, The Summit Business Bay,
Off Andheri Kurla Road,
Nr. WEH Metro Station, Andheri (E),
Mumbai 400093. INDIA

Tel.: 91-22-2684 9600
Fax: 91-22-2684 9060
Email: indenta@indenta.com
URL: www.indenta.com



• India • China • USA • Australia



INDENTA

Breathing life in the Chemistry

Manufacturers & Exporters

- Potassium Hydroxide Pellets
- Sodium Hydroxide Pellets
- Methyl Salicylate
- Salicylic Acid
- Essential Oils
- Laboratory & Research Chemicals
- Pharma Grade Essential Oils



Guatemalan Cardamom Oil

Brazilian Orange Oil

Finland Birch Tar Oil

Chinese Eucalyptus Oil

Indonesian Gum Rosin Oil

Morrocon Argan Oil

Egyptian Geranium Oil

Indonesian Nutmeg Oil

Madagascar Clove Leaf Oil

Sole agents in India



INDENTA™

ISO 9001:2015 Certified Company

117, The Summit Business Bay,
Off Andheri Kurla Road,
Nr. WEH Metro Station, Andheri (E),
Mumbai 400093. INDIA

Tel.: 91-22-2684 9600
Fax: 91-22-2684 9060
Email: indenta@indenta.com
URL: www.indenta.com



• India • China • USA • Australia



VIJAY GROUP

Adding flavour & fragrance to life

MUMBAI • BENGALURU

SINCE 1982

**MORE THAN
1200**

AROMA INGREDIENTS **AVAILABLE UNDER
ONE ROOF**

MINIMUM TO MAXIMUM

INTERNATIONAL COMPANIES

Hangzhou Grascient Co., Ltd

Allyl Cyclo Hexyl Propionate
Alpha Cedrene Epoxide
Alpha Damascone
Cedrol Crystal
Cedryl Acetate (50 % Liquid)
Cedarwood Oil Technical
Delta Damascone
Di Hydro Coumarin
Di Methyl Heptanol
Di Hydro Beta Ionone
Lantral (Ligustral)
Megasantol (Polysantol)
Methyl Cedryl Ether
Methyl Cedryl Ketone
Methyl Cedryl Ketone (Coeur)
Muscosandrol (Ebanol)
Sandacanol (Bacdanol)
Sandasweet (Sandalore)

Dominus Oleum Ltd.

Chammomile Blue Pure
Chammomile Roman Pure
Lavender Absolute Bulgarian
Lavender Bulgarian Pure
Rose Absolute Bulgarian
Rose oil
Zdravetz Oil

O'Laughlin Industries Co. Ltd.

Adoxal
Allyl Cyclohexyl Glycolate (C G)
Canthoxal (Floral Anise)
Cis Jasmone
Ethylene Brassylate
Florazone
Helional
Iso Cyclo Citral
Lambroxine
Linlan Alcohol (Majantol)
Marinal (Precyclemone-B)
Methyl Pamplemousse
Myrac Aldehyde
Ocimene PQ
Poivrol (Mahagonate)
Trigustral (Triplal / Hivertal)
Vernaldehyde
WS-3 / 23

Distillerie Bleu Provence Sarl.

Clary Sage Oil (100% Pure & Natural)
Lavandin Abrial (100% Pure & Natural)
Lavandin Grosso (100 % Pure & Natural)

Nippon Zeon

Cepionate
Cis-3-Hexanol
Cis-3-Hexenyl Acetate
Cis-3-Hexenyl Salicylate
Methyl Di Hydro Jasmonate (Claigeon)

Rivera Balsam, El Salvador

Peru Balsam Pure

Qingdao Bo-Sin International

Calone
Musk Ketone (IFRA GRADE)
Rosalva
Veramoss

Eternis Fine Chemicals UK Ltd

Benzyl Salicylate
Hexyl Acetate
Hexyl Salicylate
Nonisyl Acetate (Iso Nonyl Acetate)



Roma Aromas®

add marvels to your creation

MUMBAI
SINCE 1997

👤 JITESH GUDKA
☎ +91 93211 11912
☎ +91 22 24132121
👤 RUSHAB SHAH
☎ +91 99202 85441
✉ roma@vijaygroup.com
🌐 www.vijaygroup.com/roma



Vijay Trading Co.

MUMBAI
SINCE 1992

👤 KETAN SAVLA
☎ +91 93222 66728
☎ +91 22 24132120 / 23
👤 MITESH SHAH
☎ +91 98907 65510
✉ vtco@vijaygroup.com
🌐 www.vijaygroup.com/vtco



**UNITED CHEMICALS
& PERFUMES**

BENGALURU
SINCE 1997

👤 MIRAJ DODHIA
☎ +91 94 27773902
☎ +91 80 23116330
☎ +91 80 23407863
👤 HITESH SAVLA
☎ +91 93414 16330
✉ ucpsbc@gmail.com





VIJAY GROUP

Adding flavour & fragrance to life

MUMBAI • BENGALURU

SINCE 1982

MORE THAN
1200

AROMA INGREDIENTS AVAILABLE UNDER
ONE ROOF

MINIMUM TO MAXIMUM

INTERNATIONAL COMPANIES

Destilerias Munoz Galvez S.A

Alpha Terpinene 90% - 200041
Bornyl Laevo Acetate Crystal
Cade Oil Crude - 300032
Cade Oil Rectified 100% Pure & Natural
Chamomile Oil Pure - 300084
Chamomile Oil Spanish - 300234
Cistus Resinoid -R - 19223
Cypress Oil 100% Pure & Natural - 300039
Gamma Terpinene - 19308
Labdanum Absolute (Ambreine)
Labdanum Gum 5/10% Moisture - 19289
Labdanum Resionid - G - 20841
Labdanum Resionid - Gb30
Laevo Borneol Pure
Lavender Oil Pure - 300070
Neroli Oil - 406144
Origanum Oil -N.I. 300432
Pennyroyal Oil Pure - 300114
Rosemary Oil Pure - 15763
Rue Oil
Sage Oil
Thyme Oil White 65/70
Thyme Oil White-N.I - 500561

Symrise (Germany)

Abetic Acid
Aldron
Amber Wood F
Ambrocenide
Brahmanol F
Buccoxime
Farnesol P
Florazone
Geranium Oil Bourbon
Geranyl Tiglate
Indoflor Crystal
Iso Bergomot
Iso Muscone 50 % D.E.P.
Lactoscatone
Macrolide Supra
Macrolide Supra
Mysore Acetate
Ozonil
Romaryl R
Rose Oxide L

BASF (Germany)

Beta Ionone
Citral Extra Pure
Citronellol 96%
Ethyl Linalool
Geraniol 60%
Geraniol Extra 98%
Geranyl Acetate
Hydroxy Citronellal
Linalool
Linalyl Acetate
Lysmeral
Methyl Ionone 70% (M I G)
Nerolidol
Nerol 93 %
Pyranol
Pyranol Acetate
Tetra Hydro Geraniol
Tetra Hydro Linalool
Velberry

Les Domaines Agricoles, Morocco

Cistus Oil ((100% Pure & Natural)

Sultanene
Timberol
Ysamber K



**AVAILABLE : CONTINUOUS PROCESS,
REACTION SPECIFIC,
CHEMICAL PLANTS on TURN-KEY BASIS**

Reaction :
CASTOR OIL PYROLYSIS
for Manufacturing

**HEPTALDEHYDE
UNDECYLENIC ACID**

: **Reaction :**
REDUCTION OF CARBOXYLIC ACIDS
for Manufacturing

AROMA ALDEHYDES
such as
ALDEHYDE C 11, ALDEHYDE C 12

Reaction
CLAISEN-SCHMIDT CONDENSATION
for Manufacturing

Alpha AMYL CINNAMALDEHYDE

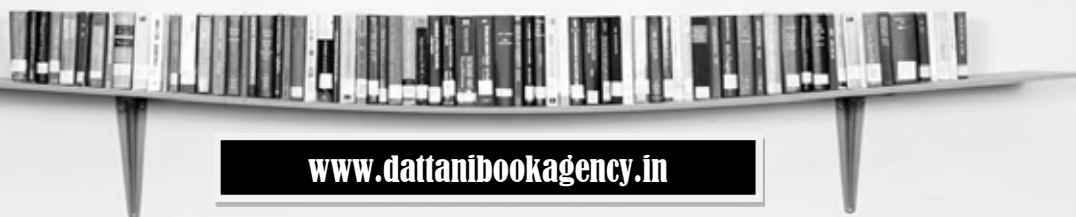
Please contact for further information :

Dr. Bhawe & Associates

mnbhawe@hotmail.com
Mobile : +91 9833942118

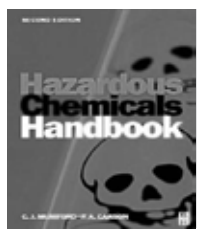
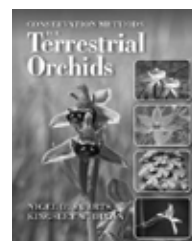
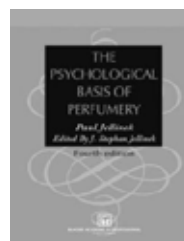
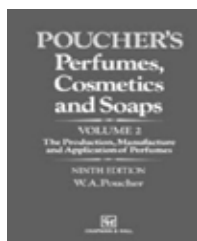
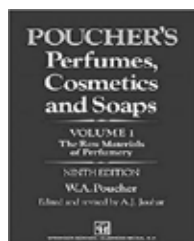
Browse through the complete Catalogue of Books

Available Books on Fragrances, Flavors, Cosmetics & Toiletries, Essential Oils, Soaps and Detergents, BP, EP, USP, IP, Pharmaceutical & Herbal, Food science and Technology and related Chemical Technology Books **for your Professional Library. ORDER THEM ONLINE at**



www.dattanibookagency.in

SCAN QR CODE



349-AA, Mangaldas Bldg. No.5, 1st Floor, Kitchen Garden Lane
MUMBAI – 400 002

Tel : 022 22035946 / 66360873 Fax : 022 66360873

Email : dattanibookagency@gmail.com

Web Site : www.dattanibookagency.com

Online Store : www.dattanibookagency.in



... a mind needs books as a sword needs a whetstone, if it is to keep its edge



VIJAY GROUP

Adding flavour & fragrance to life

MUMBAI • BENGALURU

SINCE 1982

MORE THAN
1200

AROMA INGREDIENTS AVAILABLE UNDER
ONE ROOF

MINIMUM TO MAXIMUM

INDIAN COMPANIES

Roma Aromas (Contract Mfg.)

6-Iso Propyl Quinoline
Acetal C.D
Ethyl Phenyl Acetate
Iso Longifolanone (Piconia)
Ketone 101
Maltyl Butyrate
Maltyl Iso Butyrate
Methyl Phenyl Acetate
Para Cresyl Acetate
Phenyl Ethyl Phenyl Acetate
Saffronile
Vanillin Iso Butyrate
WS3

Anshul Specialities Molecules Pvt Ltd

Di Methyl Anthranilate
Methyl Anthranilate

Kalpsutra Chemicals / Tide / Sodium

Iso Camphyl Cyclo Hexanol (ICCH)
Isobornyl Cyclohexanol (IBCH)
Methyl Naphthyl Ketone Beta
Alpha Amyl Cinnamic Aldehyde
Alcohol C-11Lic / Nic
Aldehyde C-8 / C-9 / C-10 / C-14 / C-18
Aldehyde C-11 Lic / Nic
Aldehyde C-12 Lauric / Mna
Gamma Decalactone
Lilly Alcohol
Novafolene
Rose Oxide (70:30) & (90:10)
Verdyl Acetate / Propionate / Isobutyrate

Privi Speciality Chemicals Pvt. Ltd.

Alpha Damascone
Alpha Ionone
Amber Fluor
Amber Gamma
Beta Ionone Perfumery Grade
Citral Extra Pure
Citronellal
Citronellol 95%
Citronellol Acetate
Citronellol Extra
Citronellyl Nitrite
Di Hydro Mercenol
Geraniol
Geranyl Acetate
Gamma Methyl Ionone
Indian Sandal Core
Ionone 100 %
Iso Borneol Acetate
Methyl Ionone
Nerol 95 %
Nerol Acetate
Nimberol
O.T.B.C.H.A
P.T.B.C.H.A
Sandal Fluor
Terpineol Acetate
Terpineol Perfumery Grade
Tetrahydro Geraniol (DMO)
Tetrahydro Geranyl Acetate
Tetrahydromyrcenol
Timber Touch
Timber Forte

Mac Industry

P.T.B.C.H
P.T.B.C.H.A
O.T.B.C.H
O.T.B.C.H.A

Super Chemicals

Cinnamic Alcohol
Yara Yara

Moraya Global

Allyl Amyl Glycolate
Indole
Skatole
Styrallyl Acetate





VIJAY GROUP

Adding flavour & fragrance to life

MUMBAI • BENGALURU
SINCE 1982

MORE THAN
1200

AROMA INGREDIENTS AVAILABLE UNDER
ONE ROOF

MINIMUM TO MAXIMUM

INDIAN COMPANIES - STOCK & TRADE

Harmony Organics Pvt Ltd

Aldehyde C-16
Cinnamic Aldehyde
Phenyl Ethyl Alcohol
Phenyl Ethyl Acetate
Phenyl Ethyl Methyl Ether
Phenoxy Ethyl Isobutyrate
Phenyl Ethyl Phenyl Acetate
Phenyl Propyl Alcohol
Styrallyl Acetate

Organica Aromatics

Acetyl Iso Eugenol
Alpha Damascone
Benzyl Iso Eugenol
Beta Damascon
Citronellyl Tiglate
Citronica
Damasconone total
Galbador CG
Geranyl Tiglate
Iso Damascone
Melonorg
Phenyl Ethyl Tiglate
Saffarnol
Tridecnor

Oriental Aromatics Ltd.

Product
Allyl Caproate
Allyl Heptoate
Ambertal K
Astromeran
Amstromusk Dep
Astromusk Concentrate
Camphor GF/ BQ
Capinone
Cambrottolide
Iso Borneol Powder
Iso Borneol Acetate
Ketone 101
Neroline Bromilia
Pine Oil
Rose Nitrile (Peonile)
Safranal
Shivanol
Terpineol
Terpinyl Acetate

Aquila Organics Pvt. Ltd.

Padma
Phenyl Ethyl Alcohol Pure
Phenyl Acetaldehyde 50% Dep
Phenyl Acetaldehyde 85% PEA
Phenyl Ethyl Acetate
Phenyl Ethyl Methyl Ether (PEME)
Strawberry Aldehyde

Keva Fragrances Pvt Ltd

Ethyl Benzoate
Frutiflor K
Hexyl Cyclopentanone (DHIJ) 99.5%
Methyl Octalactone
Muginol K
Timkevanol
Timwood K
Tonolide Powder
Trans 2 Hexanal
Trans 2 Hexanol



Roma Aromas®
add marvels to your creation

MUMBAI
SINCE 1997

☎ JITESH GUDKA
+91 93211 11912
☎ +91 22 24132121
☎ RUSHAB SHAH
+91 99202 85441
✉ roma@vijaygroup.com
www.vijaygroup.com/roma



Vijay Trading Co.

MUMBAI
SINCE 1992

☎ KETAN SAVLA
+91 93222 66728
☎ +91 22 24132120 / 23
☎ MITESH SHAH
+91 98907 65510
✉ vtco@vijaygroup.com
www.vijaygroup.com/vtco



**UNITED CHEMICALS
& PERFUMES**

BENGALURU
SINCE 1997

☎ MIRAJ DODHIA
+91 94 27773902
☎ +91 80 23116330
☎ +91 80 23407863
☎ HITESH SAVLA
+91 93414 16330
✉ ucpsbc@gmail.com



ONE ROOF FOR ALL FINE CHEMICALS & PERFUMERY TESTING

We Undertake R & D Activities for the following Industries

1. PERFUMERY; 2. SOAPS & DETERGENTS; 3. ESSENTIAL OILS

**We Specialise in Fame Analysis, Essential Oil Validation, Raw Material Validation, Developing
Fragrance Profiles, Root Cause Analysis and Reverse Engineering**

We have an in-house Developed Fragrance Database along with GC/MS Libraries

We are equipped with the state of art instrumentation from Agilent Technologies

GC- Agilent 7820 A with Autosampler

GC/MS - Agilent 7890 B and MSD 5977 A with Autosampler

Please Contact :

SHRADDHA ANALYTICAL SERVICES

305, 3rd Floor, Jhalawar, Patanwala compound, Opp. Shreyas Talkies,

LBS Marg, Ghatkopar (West), Mumbai - 400 086

Tel.: 91-22-25000186/ 25000386; Cell: 9821291797, 8850413449, 9821074247

Website : www.saslabindia.com;

Email: saslab21@gmail.com ; info@saslabindia.com

ATTARI SALES CORPORATION

MANUFACTURERS OF PERFUMERY COMPOUNDS



3, Commercial Chambers,
Yusuf Meheralli Road,
(Masjid Bunder Road)
Bombay - 400 003.

E-mail: humatari@gmail.com

kaznna3@gmail.com

Phone: 2341 0110 / 2343 5297

Fax: 022 23465217



FLAVOUR & ESSENCE RESOURCE

Manufacturers and Exporters of Aroma Chemicals

Apple Ether (Hexyldehyde Dimethyl Acetal)
 Aurantine Schiff base
 Allyl Tiglate
 Butyl Tiglate
 Benzyl Tiglate
 CIS-3- Hexyl Tiglate
 Cooling Agent (Menthyl Acetate)
 Cooling Agent (Menthyl Lactate)
 Cinnamyl Cinnamate
 Citronellyl Tiglate
 Di Hydro Iso Jasmone
 Ethyl Tiglate
 Geranyl Tiglate
 Iso Jasmone B-11
 Keora Tiglate
 Musk TR
 Nerol Oxide
 Orange Peel Ether
 Mono Menthyl Succinate
 Menthofuran
 Pheno Muskon (Heptaldehyde Dimethyl Acetal)

Phenyl Ethyl Methyl Ether
 Phenyl Ethyl Methyl Ether (Super)
 Phenyl Ethyl Tiglate
 Phenyl Acetaldehyde 50% in DEP & PEA
 Phenyl Acetaldehyde 85% in DEP & PEA
 Rose Tiglate
 Rose Oxide (Inactive)
 Rum Acetal (1-1 Diethoxy Cyclohexane)
 Synthetic Amber
 Tiglic Acid
 2-3-5-6 Tetra Methyl Pyrazine
 Virginia Tobacco Acetate
 Viridine (Padma)
 Vettymoss

100% Pure & Natural Extracts

Vetiver Resinoid
 Sandal Resinoid
 Patchouli Resinoid
 Sandal Absolute
 Golden Sandal PF

EXCLUSIVE INDENTING AGENT & DISTRIBUTOR OF

TEXAROME INC., USA FOR INDIA SARC & DUBAI

Amyris Oil	Cedrene	Cedarwood Oil Virginia
Amyris Alcohol	Cedrol Crystal Texas	Cedarwood Oil Texas (Rosin/Crude/ Redistilled)
Amyris Terpenes	Cedrenol Texas	Thujopsene
Alpha Cedrene	Cedarwood Oil Texas-Water Soluble	Vetiver Oil Haiti

BERJE INC. USA

Clary sage oil	Grapefruit Oil Terpenes	Lemon Oil Terpenes	Petit Grain Oil
Catnip oil	Guaiac Oil	Lime Oil Distilled	Rose Oil
Caraway oil	Guaiac Acetate	Lime Oil Terpenes	Rose Absolute
Dilweed oil	Guaiac Terpenes	Orange Oil	Tangerine Oil Terpenes
Grapefruit Oil White	Lemon Oil Argentina	Orange Oil Terpenes	Tangerine Oil Cravo
			Tangerine Oil Dancy

New Introduction : Rosemary Oil (Ex-Tunisia)

Correspondence Office :

Scent House, Station Road, Goregaon (W), Mumbai - 400 104.(India) Tel.: +91-22-2877 8305, 28722280

E-mail : flvessence@rediffmail.com / flavouressence@gmail.com

Cell No.: +91-9821046961 Website : www.flavourandessence.com

Works : Silvassa (Dadra & Nagar Haveli)



QUALITY AROMA INGREDIENTS FROM CHINA

ACETOIN	GALAXOLIDE 50% DEP
ALLYL CAPROATE	GALAXOLIDE 50% IPM
ALLYL AMYL GLYCOLATE	GAMMA DECALACTONE
ALLYL CYCLO HEXYL PROPIONATE	GAMMA DODECALACTONE
ALLYL HAPTOATE	GAMMA HEPTALACTONE
ALPHA PINENE 95%	GAMMA HEXALACTONE
AMBROCENIDE PURE	GAMMA NONALACTONE (C-18)
ANDRENE	GAMMA OCTALACTONE
BENZOPHENONE	GAMMA UNDECALACTONE (C-14)
BETA PINENE	HELIONAL
BUTYL BUTYRYL LACTATE	ISO BORNYL ACETATE
CASHMERAN	ISO CYCLO CITRAL
CEDROL CRYSTALS	LINALOOL
CEDRYL ACETATE CRYSTALS	LINALOOL OXIDE
CEDRYL ACETATE LIQUID	LINALYL ACETATE
CEDRYL METHYL ETHER	M.C.K. 80% (Methyl Cedryl Ketone)
CELESTOLIDE	MALTOL
CINNAMIC ACID	MANZANATE
cis 3 HEXENOL	MAPLE LACTONE
cis 3 HEXENYL ACETATE	METHIONAL
CITRAL	METHYL CINNAMATE
CUMINIC ALDEHYDE	METHYL PHENYL ACETATE
CYCLO HEXYL SALICYLATE	MILK LACTONE
D.M.B.C.	MUSCOSANDROL (EBANOL)
D.M.B.C.A.	MUSK – T
D.M.B.C.B.	MUSK AMBRETTE
DELTA DAMASCONE	MUSK KETONE
DI HYDRO IONONE BETA	MUSK XYLOL
DI HYDRO TERPENIOL	MUSK C – 14
DI HYDRO TERPINYL ACETATE	MYRAC ALDEHYDE (MYRAL)
DI METHYL PHENYL ETHYL CARBINOL (DMPEC)	MYRCENE 80
DI METOL	NOPYL ACETATE
DI PHENYL METHANE	PADMA
DIACETYL	PHENYL HEXANOL
ETHYL 2 METHYL BUTYRATE	PYRANOL
ETHYL BUTYRATE	RASPBERRY KETONE
ETHYL MALTOL	ROSALVA
ETHYL PHENYL ACETATE	SANDELOR
ETHYL VANILLIN	SANDENOL (ICCH)
EUCALYPTOL PURE (99%)	L BACDANOL
FENCHYL ACETATE	SULFUROL
FENCHYL ALCOHOL (FENCHOL)	TERPINEN-4-OL
FRUCTONE	TETRAHYDRO LINALOOL
FURANONE (FURANEOL)	TRIPLAL (HIVERTAL, LIGUSTRAL)
GALAXOLIDE PURE	TONALIDE

CONTACT

14, Maskati Market, Kalupur, Ahmedabad – 380002.

Tel. : +91 79 2217 3788 Telefax : +91 79 2216 5160.

web : www.arpanaromatics.com

e-mail : arpanaromatics@yahoo.co.in / info@arpanaromatics.com



**WANXIANG INTERNATIONAL F & F P.
LTD CHINA**

AMBERGRIS KETONE (ISO E SUPER)

ANETHOLE 99%

BENZYL SALICYLATE

METHYL DIHYDRO JASMONATE (HEDIONE)

L CARVONE 99%

MILTITZ AROMATICS GMBH, GERMANY

METHYL PAMPLEMOUSSE

HYDROXYAMBRAN

**AROMA AROMATICS & FLAVOURS,
BADDI, INDIA**

2-METHOXY-4-VINYLPHENOL

3-MERCAPTOHEXANOL

4-METHYL-5-VINYLTIAZOLE

6-METHYLCOUMARIN

ANISYL ACETONE

CAT KETONE

CARYOPHYLLENE OXIDE

MENTHYL LACTATE

PROPENYL GUAETHOL

RESORCINOL DIMETHYL ETHER

THIOMENTHONE

TROPATHIANE

VERATRALDEHYDE

ZINGERONE

OTHER SPECIALITY PRODUCTS

2 METHYL BUTYRIC ACID

4 VINYLGUAICOL

ACETAL E (VEROTYL)

ALCOHOL C - 10

ALCOHOL C - 8

cis 6 NONENAL

cis 6 NONENOL

cis 6 NONENYL ACETATE

CITRONELLOL

DIHYDRO ISO JASMONE

GERANIOL 60 / 98

iso BUTYRIC ACID

iso VALERIC ACID

METHYL AMYL KETONE

n BUTYRIC ACID

n HEXANOL

NOOT KETONE CRYSTALS

PROPIONIC ACID

ROSE OXIDE 70:30 (INACTIVE)

ROSE OXIDE 90:10 (HIGH CIS)

SCLAREOL

STRAWBERRYIFF

SULFURYL ACETATE

TETRA HYDRO GERANIOL (DMO)

TRANS-2-HEXENAL

TRANS-2-HEXENOL

VALENCENE

CONTACT

14, Maskati Market, Kalupur, Ahmedabad – 380002.

Tel. : +91 79 2217 3788 Telefax : +91 79 2216 5160.

web : www.arpanaromatics.com

e-mail : arpanaromatics@yahoo.co.in / info@arpanaromatics.com



O' LAUGHLIN

CIS JASMONE

OCIMENE PQ

ETHYL SAFRANATE

PRECYCLEMONE B

LINLAN ALCOHOL (MAJANTOL)

TRIGUSTRAL (TRIPLAL)

METHYL PAMPLEMOUSSE

POIVROL (MAHAGONATE)

ACS INTERNATIONAL GMBH
GERMANY

4 VINYL GUAIACOL

GAMMA HEPTALACTONE

2 PENTYL CYCLO PENTANONE
(DELPHONE)

GAMMA HEXALACTONE

DELTA DECALACTONE

GAMMA NONALACTONE

DELTA DODECALACTONE

GAMMA OCTALACTONE

DELTA HEXALACTONE

GAMMA UNDECALACTONE (C-14)

DELTA NONALACTONE

GAMMA VALEROLACTONE

DELTA OCTALACTONE

METHOXY PHENAL
(CANTHOXAL)

DELTA UNDECALACTONE

JASMORANGE

DELTA TETRADECALACTONE

MDJ HC 30 (CEPIONATE)
MDJ HC 70 (KHARISMAL)

GAMMA DECALACTONE

ROMOXYDE (CEDROXYDE)

GAMMA DODECALACTONE

L CARVEOL

AGAN AROMAS & FINE
CHEMICALS LTD, ISRAEL

AMBRETOLIDE

DELTA DAMASCONE

ATRALONE (EVERNYL)

GREEN LEAF (TRANS 3 HEXENOL)

AGANILE (PEONILE)

CONTACT

14, Maskati Market, Kalupur, Ahmedabad – 380002.

Tel. : +91 79 2217 3788 Telefax : +91 79 2216 5160.

web : www.arpanaromatics.com

e-mail : arpanaromatics@yahoo.co.in / info@arpanaromatics.com



**P T VAN AROMA
INDONESIA**

EUGENOL

GURJAN BALSAM OIL DARK

GURJAN BALSAM OIL DARK

ISO EUGENOL

METHYL ISO EUGENOL

PATCHOULI OIL

**TEXAROME INC
USA**

AMYRIS OIL

CEDARWOOD OIL VIRGINIA

CEDARWOOD OIL TEXAS

VETIVER OIL

**PURE & NATURAL
ESSENTIAL OILS**

ARMOISE OIL

BALSAM PERU

BERGAMOT OIL

BUDDAWOOD OIL

BUCHU LEAF OIL

CEDAR ATLAS

CHAMOMILE OIL BLUE / ROMAN

CLARY SAGE OIL

CLOVE LEAF OIL

CORIANDER SEED OIL

D LIMONENE

ELEMI OIL

GALBANUM OIL

GERANIUM OIL

GURJUN BALSAM OIL DARK / LIGHT

GUAIACWOOD OIL

LAVENDER ABSOLUTE

LAVENDER OIL

LAVENDIN ABRILLIS OIL

LAVENDIN GROSSO OIL

LEMON OIL

LAVENDIN ABSOLUTE

MANDARIN OIL RED

MYRTAL OIL

NUTMEG OIL

NEROLI OIL

OAKMOSS ABSOLUTE

ORANGE FLOWER ABSOLUTE

ORANGE OIL

PATCHOULI OIL

PATCHOULI OIL IRON FREE

PETIT GRAIN OIL

ROSEMARY OIL

SAGE OIL

STYRAX OIL

TREEMOSS ABS

YLANG OIL EXTRA

YLANG OIL III

CONTACT

14, Maskati Market, Kalupur, Ahmedabad – 380002.

Tel. : +91 79 2217 3788 Telefax : +91 79 2216 5160.

web : www.arpanaromatics.com

e-mail : arpanaromatics@yahoo.co.in / info@arpanaromatics.com



VIJAY GROUP

Adding flavour & fragrance to life

MUMBAI • BENGALURU

SINCE 1982

MORE THAN
1200

AROMA INGREDIENTS AVAILABLE UNDER
ONE ROOF

MINIMUM TO MAXIMUM

CHINESE PRODUCTS

Adoxal
Aldehyde C - 14 / 16 / 18
Allyl Amyl Glycolate (A.A.G)
Allyl Carproate / Heptoate
Allyl Cyclo Hexyl Propionate
Allyl Phenoxy Acetate
Alpha Damascone
Alpha Pinene 95%
Ambergris Ketone (Iso E Super)
Ambrocenide
Anethole
Benzophenone 99.7%
Benzyl Cinnamate
Benzyl Salicylate
Canthoxal
Cedarwood Oil Technical
Cedrol Crystal
Cedryl Acetate (50 % Liquid)
Cedryl Acetate Crystal
Celestolide
Cinnamic Acid
Cis Jasmone
Clove Terpenes (Beta Caryophellen)
Coumarin
Cuminc Aldehyde
D.M.B.C
D.M.B.C.A
D.M.B.C.B.
D.M.P.E.C.
Delta Damascone
Delta Dodecalactone
Di Hydro Beta Ionone

Di Hydro Coumarin
Di Methyl Heptanol
Ethyl Aceto Acetate
Ethyl Butyrate
Ethyl Cinnamate
Ethyl Maltol FCC
Ethyl Vanillin
Ethylene Brassylate (Musk T)
Evernyl / Veramoss
Fenchyl Alcohol / Acetate
Florazone
Fructose 99% Purity
Furanone (FFC Grade)
Galaxolide 50 % D.E.P / IPM
Galaxolide NEAT 100%
Gamma Decalactone / Dodecalactone
Geranium Oil Yunnan
Helional
Herculine D
Hexyl Acetate
Hexyl Salicylate
Iso Bornyl Acetate
Iso Cyclo Citral
Iso Nonyl Acetate
Lambroxine (Ambroxan)
Linalool Oxide
Linlan Alcohol (Majantol)
Lylal
M D H J (Hedione)
Maltol
Maple Lactone
Marinal (Precyclemone-B)

Megasantol (Polysantol)
Methyl Cedryl Ether
Methyl Cedryl Ketone / Coeur
Methyl Cinnamate
Methyl Pamplemousse
Methyl Salicylate
Muscosandrol (Ebanol)
Musk Ambrette
Musk Ketone (0.8%) / (0.1%)
Musk Xylol
Muskolide (Tonolide)
Myrac Aldehyde
Myrcene
Nopyl Acetate
Ocimene PQ
Phenoxanol
Phenyl Ethyl Alcohol
Poivyrol (Mahagonate)
Radjanol / Bacdanol
Raspberry Ketone
Rosalva
Sandasweet (Sandalore)
Sulfurol Milky
Terpineol 4-ol
Triplal / Hivertal
Vanillin
Vernaldehyde
Watermelon Ketone (Calone)



Roma Aromas®
add marvels to your creation

MUMBAI
SINCE 1997

👤 JITESH GUDKA
☎ +91 93211 11912
☎ +91 22 24132121



Vijay Trading Co.

MUMBAI
SINCE 1992

👤 KETAN SAVLA
☎ +91 93222 66728
☎ +91 22 24132120 / 23



**UNITED CHEMICALS
& PERFUMES**

BENGALURU
SINCE 1997

👤 MIRAJ DODHIA
☎ +91 94 27773902
☎ +91 80 23116330





VIJAY GROUP

Adding flavour & fragrance to life

MUMBAI • BENGALURU

SINCE 1982

MORE THAN
1200

AROMA INGREDIENTS AVAILABLE UNDER
ONE ROOF

MINIMUM TO MAXIMUM

ESSENTIAL OILS

Ajowan Oil	Davana Oil	Neem Oil
Almond Sweet / Bitter Oil	D Limonene Oil	Neroli Oil
Amyris Oil	Dil Seed Oil	Nutmeg Oil
Anethole Oil	Elemi Oil	Olibanum Oil
Anethy Oil	Choya Nakh Oil	Onion Oil
Angelica Root Oil	Litsea Cubeba oil	Orange Oil / Sweet / Bitter Oil
Anise Seed Oil	Eucalyptol Oil	Orange Oil 5x / 10x Fold
Armoise Oil	Eucalyptus 60% / 80%	Origanum Oil
Apricot Oil	Fennel Oil	Palmarosa oil
Asafoitida Oil	Galbanum Oil	Parsley Seed oil
Avocado Oil	Garlic Oil	Patchouli Oil
Argan Oil	Geranium Chinese	Patchouli Oil Iron Free
Balsum Copaiba	Geranium Egypt	Peppermint Oil
Basil Oil	Geranium Oil BB	Petit Grain Oil
Bay / Bay leaf Oil	Ginger Grass Oil	Pimento Berry Oil
Bergamot Oil	Ginger Oil	Rose Oil
Black Pepper Oil	Grape Fruit / Seed Oil	Rosemary Oil
Bucchu Oil	Guaicwood oil	Ruh Oil
Cade Oil	Gulgam Balsum Dark / Light Oil	Sage Oil
Cajeput Oil	Holy Basil oil	Spearmint Oil
Calamus Oil	Jasmine Oil	Sugandh Mantri / Kokila Oil
Canang Oil	Jatamansi Oil	Tagetes Oil
Caraway Oil	Juniperberry Oil	Tarragon Oil
Camphore Oil	Jojoba Oil	Tea Tree Oil
Cardamom Oil	Castor Oil	Turmeric Oil
Carrot seed Oil	L Carvone Oil	Thuja Oil
Cucumber Oil	Kapoor Kachri Oil	Valerian Root Oil
Cassia Oil	Laurel Leaf Oil	Verbena Oil
Cedar wood Oil	Lavander Oil	Vetiver Oil
Cedarwood Oil Atlas / Texas / Virginia	Lavandin Oil Grosso / Abrialis	Violet Leaf Oil
Cellery seed Oil	Lemon Finest	Wheat Germ Oil
Chamomile Roman / Blue Oil	Lemongrass Oil	Ylang Ylang I / II / III / Extra
Cinnamon Oil / Leaf Oil	Lime Oil	Zdravetz Oil
Cistus Oil	Lovage Leaf / Root Oil	
Citrodora Oil	Mace Oil	
Citronella Oil	Mandarine Oil	
Clary Sage Oil	Mandarine Red / Green / Yellow Oil	
Clove / Bud / Leaf / Crude Oil	Margoram Oil	
Cognac Green / White Oil	Myrrh Oil	
Coriander Oil	Mentha Oil	
Corriander Seed Oil	Mint Oil	
Costus Root Oil	Morpankhi Oil	
Cumin Oil	Myrtle Oil	
Cypress Oil	Nagarmotha Oil	





ADVERTISER'S INDEX

S No	Advertisers	Page No.	TEL NO.	E-MAIL ID
1	ADITI INTERNATIONAL	29	+91-9819785911	aicorp@aditiessentialoil.com
2	ANTHEA AROMATIC PVT. LTD.	119	022-39145000	info@anthea-aromatics.com
3	AROMA AROMATICS & FLAVOURS	121	01795-244431	rohit@gogia.com
4	AQUILA ORGANICS PVT LTD	5	022-62483700	girish@acquilaorganics.com
5	ARPAN AROMATICS	54	079-22173788	arpanaromatics@yahoo.co.in
6	ARPAN AROMATICS	55	079-22173788	arpanaromatics@yahoo.co.in
7	ARPAN AROMATICS	142	079-22173788	arpanaromatics@yahoo.co.in
8	ARPAN AROMATICS	143	079-22173788	arpanaromatics@yahoo.co.in
9	ARPAN AROMATICS	144	079-22173788	arpanaromatics@yahoo.co.in
10	ARPAN AROMATICS	145	079-22173788	arpanaromatics@yahoo.co.in
11	ASSOCIATE ALLIED CHEMICALS	COVER IIA	022-24198810	aacipl@aacipl.com
12	ATTARI SALES CORPORATION	140	022-2341 0110	humatari@vsnl.com
13	BALAJI TRADING COMPANY	24	022-23432526	thakker_group@outlook.com
14	BBK SPECIALITIES	124	91-7738899993	kamalkesar100@gmail.com
15	BMV FRAGRANCES PVT. LTD.	10	91-8800397839	bmv@bmvfragrances.com
16	BMV FRAGRANCES PVT LTD	11	91-8800397839	bmv@bmvfragrances.com
17	CHEMKART	118		
18	D. G. GORE	123	022-22080909	dgore@dggore.com
19	DATTANI BOOK AGENCY	137	022-22035946	dattanibookagency@gmail.com
20	DIP SOFTWARE SOLUTIONS	85	91-9830034635	hsbindra@dipssindia.com
21	DR. BHAVE & ASSOCIATES	136	91-9833942118	mnbhawe@hotmail.com
22	FINE FRAGRANCE PVT. LTD.	57	022-22023834	sales@finefrag.com
23	FINE FRAGRANCE PVT. LTD.	58	022-22023834	sales@finefrag.com
24	FINE FRAGRANCE PVT. LTD.	59	022-22023834	sales@finefrag.com
25	FINE FRAGRANCE PVT. LTD.	60	022-22023834	sales@finefrag.com
26	FINE FRAGRANCE PVT. LTD.	61	022-22023834	sales@finefrag.com
27	FINE FRAGRANCE PVT. LTD.	62	022-22023834	sales@finefrag.com
28	FINE FRAGRANCE PVT. LTD.	63	022-22023834	sales@finefrag.com
29	FLAVOUR & ESSENCE RESOURCE	141	022-28778305	fivessence@rediffmail.com
30	GIRISH ENTERPRISES	20	022-22013385	info@girishenterprise.in
31	GIRISH ENTERPRISES	21	022-22013385	info@girishenterprise.in
32	GIVAUDAN (I) PVT. LTD.	17	022-66625749	mamta.panchal@givaudan.com
33	GEM AROMATICS PVT. LTD	52	022-25185231	yparekh@gemaromatics.in
34	GEM AROMATICS PVT. LTD.	53	022-25185231	yparekh@gemaromatics.in
35	HARISH C. KHOSLA & CO. PVT. LTD.	150	011-23214803	sales@hckindia.com
36	HEMANI AROMATICS	112	022-27782698	info@hemaniaromatics.com
37	HIMALAYA TERPENES PVT. LTD.	120	022-24056704	info@himalayaterpene.com
38	INDENTA CHEMICALS (I) P. LTD.	132	022-26849600	indenta@indenta.com
39	INDENTA CHEMICALS (I) P. LTD.	133	022-26849600	indenta@indenta.com
40	INDO GSP CHEMICALS	80	+91 -7278365146	info@indogsp.com
41	KAMAL AROCHEM	39	022-26845485	kamalarochem@hotmail.com
42	KARNATAKA AROMAS	77	080-43468800	aromas@karnatakaaromas.com
43	KARNATAKA AROMAS	78	080-43468800	aromas@karnatakaaromas.com
44	KARNATAKA AROMAS	79	080-43468800	aromas@karnatakaaromas.com



ADVERTISER'S INDEX

S No	Advertisers	Page No.	TEL NO.	E-MAIL ID
45	LEO CHEMO PLAST PVT. LTD.	2	022-40279000	hitesh@leochemo.com
46	MANISH MINERALS AND CHEMICALS	16		
47	MUSKS AND FRAGRANCE	8	022-68151800	indentor@muskfrag.com
48	MUSKS AND FRAGRANCE	30	022-68151800	indentor@muskfrag.com
49	MUSKS AND FRAGRANCE	96	022-68151800	indentor@muskfrag.com
50	MUSKS AND FRAGRANCE	111	022-68151800	indentor@muskfrag.com
51	NIRMITI LABS PVT. LTD.	106	022-24050960	nirmitilab@gmail.com
52	NISHANT AROMAS	14	022-28806611	info@nishantaromas.com
53	NISHANT AROMAS	15	022-28806611	info@nishantaromas.com
54	NOREX FLAVOURS PVT. LTD.	40	0592 4273095	sales@norex.in
55	ORGANICA AROMATICS PVT. LTD.	7	080-27735252	info@organicaaroma.com
56	PHARM AROMATIC CHEMICALS	88	022-23432526	thakker_group@yahoo.com
57	PLANT LIPIDS PVT. LTD.	4	0484-2844500	info@plantlipids.com
58	PUSHPA FLAVOURS & FRAGRANCES P LTD.	107	91-8380081933	pushpaflav@gmail.com
59	PUSHPA FLAVOURS & FRAGRANCES P LTD.	108	91-8380081933	pushpaflav@gmail.com
60	PUSHPA FLAVOURS & FRAGRANCES P LTD.	109	91-8380081933	pushpaflav@gmail.com
61	PUSHPA FLAVOURS & FRAGRANCES P LTD.	110	91-8380081933	pushpaflav@gmail.com
62	RAKESH PRODUCTS	126	0512-2563930	info@rakeshin.com
63	RAKESH SANDAL INDUSTRIES	COVER IV	0512-2563930	info@rakeshsandal.com
64	S. H. KELKAR & COMPANY LTD	22	022-21677777	www.keva.co.in
65	S. H. KELKAR & COMPANY LTD.	23	022-21677777	www.keva.co.in
66	SACHEEROME PVT. LTD.	12	011-47311111	info@sacheerom.com
67	SATYAM ENTERPRISES	64	022-23432526	thakkar_group@outlook.com
68	SEVANTILAL & SONS	COVER III	022-22061218	sevantilalsons@vsnl.net
69	SHRADDHA ANALYTICAL SERVICES	140	91-9821291797	saslab21@gmail.com
70	SIVA EXPORT CORPORATION	18	011-22148207	s.v@somextracts.com
71	SONAROME PVT. LTD.	9	91-9916663126	sonarome@sonarome.com
72	SONAROME PVT. LTD	19	91-9916663126	sonarome@sonarome.com
73	SONAROME PVT. LTD.	56	91-9916663126	sonarome@sonarome.com
74	SOOFI ENTERPRISES	125	022-22043044	sales@soofi.in
75	SOOFI TRADERS	126	022-22043044	sales@soofi.in
76	SOOFI TRADERS	127	022-22043044	sales@soofi.in
77	TREATT INDIA	64(A)	91-9986667710	nikhil.subramanian@treatt.com
78	TRIO FLAVOURS & FRAGRANCES	51	91 9082635400	specialityorganic@yahoo.com
79	ULTRA INTERNATIONAL LTD.	COVER II	011-41517010	ultra@ultraintl.com
80	UNITED MULTICHEM LLP	13	0120-4192736	sales@unitedmultichem.com
81	VIJAY GROUP	94	022-24132120	vtco@vijaygroup.com
82	VIJAY GROUP	95	022-24132120	vtco@vijaygroup.com
83	VIJAY GROUP	134	022-24132120	vtco@vijaygroup.com
84	VIJAY GROUP	135	022-24132120	vtco@vijaygroup.com
85	VIJAY GROUP	138	022-24132120	vtco@vijaygroup.com
86	VIJAY GROUP	139	022-24132120	vtco@vijaygroup.com
87	VIJAY GROUP	146	022-24132120	vtco@vijaygroup.com
88	VIJAY GROUP	147	022-24132120	vtco@vijaygroup.com
89	VIRAT EXPORTS	6	011-40367511	info@viratexports.com

HARISH C. KHOSLA & CO. PVT. LTD

ZINAT MAHAL, LAL KUAN BAZAR,
DELHI-110 006

PHONES:
011-2321 4803 / 2321 3160

B.O.: 1534, S.P. Mukerjee Marg, Delhi - 110006.
Phone: 011 - 49096538

E-mail : sales@hckindia.com / accounts@hckindia.com
Website : www.hckindia.com

AGENTS & DISTRIBUTORS

GIVAUDAN (INDIA) PVT. LTD.

FOR

GIVAUDAN FRAGRANCES

&

GIVAUDAN FLAVOURS

COUNT US IN

Annual Subscription ₹ 500/-
Three Year subscription ₹ 1350/-

Please enroll the following name for Annual subscription of "The FAFAI Journal" Enclosed Cheque / Draft No.: _____ Dated _____ for ₹ _____ favouring **FRAGRANCES & FLAVOURS ASSOCIATION OF INDIA**, 2-B, Court Chambers, 35, Sir Vithaldas Thackersey Marg, Mumbai 400 020.

Name : _____

Address : _____

_____ Pin.: _____

Tel.: No. _____ Email : _____

THE FAFAI JOURNAL ADVERTISEMENT RATES

Space	For single insertion ₹	For One Year Contract for Four Insertions ₹
Back Cover (4 Colours): Members	12000/-	44000/-
Front Inside Cover (4 Colours)	7000/-	26000/-
Back Inside Cover (4 Colours)	6500/-	24000/-
Colour Page (4 Colours)	4000/-	14400/-
Full Page : Members	1650/-	6000/-
Full Page : Non-Members	2250/-	8000/-
Half Page : Members	1100/-	4000/-
Half Page : Non-Members	1350/-	4800/-

Add 5% GST in the above rates

Mechanical data : Full page : 24 x 18 cms Half page : 12 x 18 cms



SEVANTILAL & SONS

Products offered:

Alphaline 70

Beta Ionone

Dehydro- linalool

Dihydro – linalool

Ethyllinalool

Ethyllinalyl Acetate

Geranyl Acetone

Isophytol

Isonaline 70

Linalool

Linalyl Acetate

Methyl – heptenone

Nerolidol

Tetrahydro Linalool

Tetrahydrolinalyl Acetate



Aroma Ingredients from:



Authorised Importer - Distributor
SEVANTILAL & SONS

905, Marathon Icon, Marathon Nextgen Complex,
Ganpatrao Kadam Marg , Lower Parel (West),

Mumbai – 400013. Tel – 24977100/7101, 66342925/2926

Fax – 00-91-22-24977103 Email – info@sevantilalandsons.com

Natural Essential Oils Aromatherapy Oils & Carrier Oils

Serving The World Since 1972

**U.S. FDA, WHO-GMP, ISO 9001, HACCP
KOSHER, HALAL, FSSAI & ORGANIC CERTIFIED**

Natural

Essential Oils
Carrier Oils
Herbal Extracts
Perfumery Compounds
Aromatherapy Oils
Oleoresins etc.



RAKESH
SANDAL INDUSTRIES

STAR EXPORT HOUSE RECOGNIZED BY GOVT. OF INDIA

25, Azad Nagar Kanpur 208002, U.P. India
Mob: +91 73882 33330/31/34/39
Email: info@rakeshin.com
Web: www.rakeshin.com

Our Groups:



Our Membership:

