

## ESSENTIAL OILS AND OLEORESINS MARKET INSIDER



Water seal lid on still, Madagascar.

September 2015 Report

## Market Insider

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### **Cosmetic sector driving growth – good news for natural aromatics**

The recent acquisition of Lucas Meyer by showed leading flavor and fragrance houses are expanding their capabilities in the cosmetic ingredient sector. Already symrise is reporting that its annual sales are being boosted by its cosmetics which were a leading performer in 2014. And now Givaudan has announced that it will acquire 100% of the shares of Induchem Holding AG (Switzerland) and its subsidiaries. Induchem's portfolio comprises functional active ingredients driven by its expertise in biocatalysis, metagenomics and biochemical synthesis. Terms of the deal have not been disclosed. Induchem achieved sales of about CHF 25 million in 2014, according to an official Givaudan announcement.

In June 2014 Givaudan acquired the cosmetics firm Soliance and its active cosmetic ingredients portfolio. The Soliance and Induchem acquisitions fall under Givaudan's active cosmetic ingredients business within the fragrance division, which is run by Maurizio Volpi. "Induchem is a second key step, after the acquisition of Soliance, towards our ambition to make Givaudan a significant player in the active cosmetic business," said Gilles Andrier, CEO of Givaudan. "Induchem brings strong complementary capabilities to Givaudan and will greatly contribute in achieving our 2020 ambition to become a key player in this fast growing business. We are delighted to welcome Induchem's employees to Givaudan; our high cultural fit will contribute greatly to a successful integration."

Source: Givaudan

### **NBTY Expands Wellness Positioning with Skin Care Acquisition**

NBTY, Inc. (New York) has acquired the Dr. Organic natural skin care and plans to introduce it to the U.S. market. NBTY is in the vitamin, nutritional supplement and sports nutrition space. The Dr. Organic brand, founded in 2008, was first sold exclusively at NBTY's Holland & Barrett retail chain in the United Kingdom. Its products include Moroccan Argan Oil Shampoo, Manuka Honey Body Butter, Coconut Oil Moisture Melt and Organic Snail Gel.

All Dr. Organic products are free from parabens, sodium lauryl sulfate, perfumes, artificial fragrances, petrochemicals, genetically modified organisms, animal ingredients and animal testing. "We are extremely enthusiastic about the strategic acquisition of Dr. Organic," said NBTY president and CEO Steve Cahillane. "We have a tremendous opportunity to expand our health and wellness portfolio and to broaden the distribution of these highly-regarded products.

We believe the acquisition will allow us to accelerate NBTY's entry into the mass-market beauty and skincare category particularly in the U.S., an area which we believe can be an important growth engine for our business, as evidenced by the success of our Nature's Bounty Optimal Solutions product line."

"Our partnership with NBTY's retail division has proven to be the perfect fit for the Dr. Organic brand," said Dr. Organic co-owners Fred Whitcomb and Steve Quinn. "We believe there is no better 'home' for our well-loved brand and are pleased to be able to accelerate Dr. Organic's next leg of growth through the unsurpassed expertise and prideful ownership of NBTY."

Source: NBTY

## **Unilever Expands in Skin Care with Kate Somerville Acquisition**

Unilever added Kate Somerville Skincare LLC to its portfolio of personal care brands. The brand was founded in Los Angeles. It is distributed in the United States, with a growing presence in Asia. Active Balance Technology is one of Kate Somerville's key technologies, combining advanced active ingredients with natural botanicals.

"The most photographed faces in Hollywood trust Kate Somerville Skincare for its high-quality ingredients, proven results and touch of glamour. It is a highly differentiated brand that is well placed in the dermocosmetic segment of the skin care category," noted Vasiliki Petrou, Unilever Senior Vice President, Prestige Brands. Unilever finds global growth potential in Kate Somerville, and looks to expand it into more countries in the near future. Somerville, the brands namesake, looks forward to growing the brand in partnership with Unilever.

"Our treatments, such as Exfolikate and Dermal Quench, have become tried-and-true customer favorites," commented Somerville. "Unilever shares our commitment to quality, innovation and bringing consumers the best possible products. Its scale and long history building iconic brands makes Unilever the perfect partner in the next stage of our journey and I'm confident it will take Kate Somerville Skincare to even greater heights."

Source: Unilever

## **Amyris Develops Yeast Strain to Produce Fragrances at Commercial Scale**

Amyris announced that it has developed a yeast strain ready to produce a new fragrance molecule at commercial scale in less than 12 months from the start of strain engineering, and plans to begin manufacturing of this molecule at its Brotas production facility. The engineered strain was designed, engineered, optimized and scaled for industrial fermentation using Amyris's advanced synthetic biology platform, showcasing the company's proprietary HI-RYSE™ (Hyper-Integration for Rapid Yeast Strain Engineering) technology. This achievement adds to the growing number of successfully-scaled molecules produced by Amyris for its partners and consumers, which find use in wide-ranging products such as pharmaceuticals, fuels and specialty chemicals, and are made from renewable plant-based feedstock.

"To deliver on our customers' expectations of lower cost, better performing chemistry for industrial applications, we needed a technology that could perform faster than one-step-at-a-time engineering as you see with current technologies like CRISPR, which limits the speed of product development," said John Melo, President and CEO of Amyris. "Our patented HI-RYSE technology has enabled us to deliver this fragrance molecule to our collaboration partner in half the time we expected and at a lower production cost than we planned. This is a major breakthrough for industrial biotechnology that will enable us to accelerate the commercialization of the 17 molecules currently under contract for development in our collaboration portfolio. At maturity, we expect each of these molecules to deliver US\$30 million to US\$40 million of annual product revenue at approximately a 60% gross margin."

"With our HI-RYSE technology, we've combined the precision of site-specific genome engineering with the speed of high-throughput multiplexing, which is enabling Amyris to produce new molecules essentially on demand," said Joel Cherry, President of Research & Development at Amyris. "This is a milestone in industrial bioscience not unlike the advent of industrialized travel – we're now riding by railway where there were only wagons before."

"Amyris's technology platform is well suited to combine high-speed genomic engineering with high-performance screening and scaling to set the bar for industrial biotechnology applications," said David Botstein Ph.D., Professor Emeritus (Genomics) at Princeton University and one of the world's leading geneticists, as well as an advisor to Amyris. "Bio-based molecules for any application imaginable are very quickly moving from conception to reality, and the expertise and advanced strain engineering capabilities of Amyris positions them to be a leader to move this field forward."

HI-RYSE™ Technology: Fast Genome Engineering for Faster Product Development. Core to Amyris's industrial synthetic biology platform is its HI-RYSE Genome Engineering Technology, which

is the subject of United States Patent No. 8,685,737 (“Methods for Genomic Modification”).<sup>1</sup> HI-RYSE utilizes site-specific nucleases (DNA cleavage enzymes) to facilitate the simultaneous targeted integration of multiple DNA inserts into a host cell’s genome in a single reaction.

This obviates iterative engineering steps and the need for selectable markers, dramatically reducing the time needed to optimize the cell to produce a desired molecule. In particular, HI-RYSE enables high-efficiency installation of entire biosynthetic pathways, as well as pathway enhancements that serve to significantly boost the transformation of carbon from renewable feedstock, such as sugar cane, into target molecules via microbial fermentation. Moreover, HI-RYSE is compatible with any nuclease capable of specifically targeting DNA sequences, such as meganucleases, Zinc Finger Nucleases (ZFNs), and Transcription activator-like effector nucleases (TALENs).

Recently, Lux Research mentioned in its new research the multi-billion dollar flavors and fragrances (F&F) industry is now increasingly tapping biotechnology and synthetic biology to reinvent itself from an unsustainable high-cost, high-risk path. It mentioned that farnesene developer Amyris leads the pack with strong performance in both business execution and technology.

### **About Amyris**

Amyris is the integrated renewable products company that is enabling the world’s leading brands to achieve sustainable growth. Amyris applies its innovative bioscience solutions to convert plant sugars into hydrocarbon molecules, specialty ingredients and consumer products. The company is delivering its No Compromise® products in focused markets, including specialty and performance chemicals, fragrance ingredients, and cosmetic emollients.

Source: Amyris

### **Evolva Releases an Affordable and Sustainable Nootkatone**

The number of products derived from fermentation of yeasts and other organisms continues to increase. As a result of Evolva’s acquisition of Allylix, Evolva has launched the citrus odorant, nootkatone to expand beyond flavor and fragrance and into insect repellents. The highly coveted odorant is produced using patented fermenting technology, where the ingredient is extracted from sugar rather than the skin of grapefruits.

Through this technology, nootkatone is produced in larger quantities for commercial use. It also allows for production to be more sustainable and affordable. Several F&F companies, including Evolva and Cargill are developing fermentation technology as a means for more affordable, efficient, and sustainable ingredient creation.

Laboratory and field research also indicates nootkatone's versatility beyond flavor and fragrance as an insect repellent. Studies showed nootkatone as an excellent repellent against pests, especially ticks that carry Lyme disease, as well as mosquitoes, lice and bed bugs. Earlier this year, Evolva submitted a request to the US Environmental Protection Agency (EPA) to accept nootkatone as a biochemical pesticide. The request was approved on August 19, 2015. The company will devote two to three years of research to regulate and approve nootkatone as an insect repellent in the United States.

Source: Evolva

### **MANE opens office in Myanmar**

MANE continues its expansion strategy in Asia with the opening of a representative office in Myanmar. In June 2015, MANE added a new location to its global network of affiliates by opening an office in Yangon, the economic capital of Myanmar, as a branch of MANE Thailand. MANE Myanmar will be servicing the Burmese food and consumer goods manufacturing sector with its full range of flavours and fragrances for all application segments.

Housing commercial offices and application laboratories, this structure reinforces the commitment of the Group to South-East Asia and is a serious asset to continue to develop MANE's presence in a market which has become very competitive after it opened up in 2012.

Source: MANE

### **FDA Warning Reminder: Whole Stevia Leaf Not GRAS Approved**

Although refined stevia extracts have been approved as safe for usage in the US markets, the natural leaf product has not. As generally recognized as safe (GRAS)-approved, refined stevia innovations continue to garner commercial interest, the US Food and Drug Administration (FDA) has issued a warning letter to a tea manufacturer saying there's no food additive regulation authorizing the use of whole Stevia leaf or its crude extracts in food and beverages—including teas.

In a letter to Ten Ren Tea Company of San Francisco, the FDA said it reviewed the regulatory status of the ingredient, Stevia leaf - tea bag cut, used as an ingredient in Ten Ren Chrysanthemum Tea and Hibiscus Spice Tea and determined under the Federal Food, Drug and Cosmetic Act that they bear or contain an unsafe food additive.

"There is no food additive regulation that authorizes the use of Stevia leaf ... we are not aware of any basis to conclude that Stevia leaf is GRAS for use in conventional foods," the FDA wrote. Furthermore, the FDA said it is "not aware of any other exemption from the food additive definition that would apply to Stevia leaf for use as an ingredient in a conventional food," such as these particular tea products.

While the FDA has received inquiries and petitions for the use of whole-leaf Stevia or its crude extracts in food, "data and information necessary to support the safe use have been lacking," it said. The FDA has not objected to the use of highly refined stevia preparations in food products, such as Rebaudioside A as well as other weight percentages of steviol glycosides, the compounds responsible for the sweet taste of the leaves of the stevia plant, such as REb M. In 2011, The European Union Commission made its final approval of regulation that authorizes the use of steviol glycosides in foods and beverages in the EU.

### **IFEAT Annual meeting 27 September to 1 October**

The IFEAT annual meeting is being held in Colombo over the period 27 September to 1 October. Over 1,000 members and delegates have registered to attend. The meeting comprises a programme of technical lectures on the essential oil and aroma chemicals industry of the region on the Monday, Tuesday and Thursday, with field trips to production companies on the Wednesday or full day workshops on perfumery or medicinal plants.

As with the previous IFEAT conference a full technical session is being devoted to Sustainability reflecting the importance of this issue in commercial trade – it has become a standard element in the assessment of a commercial source.

### **Nutmeg oil prices remain depressed**

Nutmeg oil prices are well off their highs of 12 months ago, with prices down by 30% or more, and no immediate sign of an upturn in prices as supply remains in excess of demand – production has increased as new sources of supply have come into the market, increasing Indonesia's production, but demand has remain relatively stable with no equivalent increase.

### **FEMA GRAS 27 List Adds New Materials**

The Flavor and Extracts Manufacturers Association (FEMA) has released its GRAS 27 flavoring list which includes newly GRAS'd materials and changes to the GRAS statuses of quinoline (FEMA# 3470), ethylene oxide (FEMA# 2433), and styrene (FEMA# 3233).

For quinoline, FEMA's expert panel concluded that additional data, including in vivo genotoxicity and chronic toxicity testing, were required to support the continuation of its GRAS status. "Until such data are available for review, the flavor ingredient quinoline has been removed from the FEMA GRAS list," the Expert Panel noted.

Based on "little evidence that ethylene oxide or styrene is used for the technical effect of flavoring" the Panel concluded that both ethylene oxide and styrene should be removed from the FEMA GRAS list.

The GRAS 27 publication also includes details of average usual use levels and average maximum use levels for new FEMA GRAS materials. It also features updated average usual use levels and average maximum use levels for flavoring substances previously recognized as GRAS.

**The full GRAS 27 publication can be seen, and downloaded from: [www.femaflavor.org/fema-gras™-flavoring-substance-list](http://www.femaflavor.org/fema-gras™-flavoring-substance-list)**

***The full publication will be included in the Monthly Report.***

### **Asian trends in Beauty Standards, Natural and Organic**

An increasingly widening range of opportunities in the beauty sector are emerging in the Asian marketplace. China, Japan and South Korea are among the top 10 beauty markets in the world, with a combined market value of USUS\$59.5 billion, according to a recent Datamonitor report. These dynamic markets are leading innovations in the areas of product formats, ingredients, and anti-ageing solutions.

To tap into the Chinese market, a Canadean report ([www.canadean.com](http://www.canadean.com)) recommends that beauty marketers avoid the pitfalls of narrow beauty standards for consumers and instead focus on highlighting aspects such as happiness, self esteem and relaxation. The analysis notes that about 41% of Chinese consumers are driven by pressure to look good, aside from succeeding in life. About 78% believe those who look good have better opportunities for success, while 58% feel that society's definition of attractiveness is narrowing. These sentiments were most intense among younger Chinese.

Asia's natural and organic cosmetic sales will soon exceed USUS\$1 billion, according to a study by Organic Monitor ([www.organicmonitor.com](http://www.organicmonitor.com)) but is plagued by false claims, certifications and consumer confusion. China represents the largest market in the region, driven by high-end brands, followed by Japan. Natural and organic personal care companies are reaching consumers through concept stores and salons such as those established by Aveda and Forest Essentials. With growing awareness of natural and organic products and standards, labels such as Ecocert have become more popular.

Source: Canadean & Organic Monitor

### **IFEAT conference ends – next stop Dubai**

The 2015 IFEAT meeting ended on Thursday 1 October. With over one thousand delegates attending, and a full programme of technical lectures, it was an excellent place to learn and do business. The dates and location of the next (2016) meeting have been fixed: Dubai, over the period 25-29 September. The conference will be held at the Madinat Jumeirah. The theme of the conference will be "The Middle East – Challenges at the historical crossroad of the F&F trade".



# Product and Market Notes

## Country Study – Turkey Essential oils

### Country Study: an update on essential oil production in Turkey<sup>1</sup>

The essential oil industry in Turkey splits into 2 major parts: the rose sector (based on *Rosa damascena*), and the other essential oils distilled from the herb and spice sector.

#### Rose sector

The rose sector is effectively confined to the maintainous areas in the Isparta, Afyon, Burdur and Denizli regions of SW Turkey, with Isparta being the most important area. Cultivation is dominated by family based small holders with 1 to 2 acre plots. It is thought that around 10,000 families are involved. Yields of rose oil are up to 1 kg rose oil from 3,500 kgs of fresh rose flowers. With good cultivation practices, 1 acre of roses can give up to 3,500 kgs of fresh flowers, although in other origins and with poor practices flower yields can be far lower than this.

The major companies involved in the production of rose oil are: Sebat-United; Gulbirlik; Robertet; IFF-Ercetin; and Biolandes. There are also a number of other small Turkish companies involved. Production estimates for the major producers of rose oil and concrete in 2014 were:

Company	Processing (tonnes)	Rose oil (kgs)	Rose concrete (kgs)	Rose absolute (kgs)
Sebat-United	1,745	245	2,575	1,020
Gulbirlik	800	160	300	
Robertet	940	140	1,400	
Ercetin-IFF	575	120	500	
Biolandes	560	75	650	
Others	1,275	200	1,500	
<b>TOTAL</b>	<b>5,885</b>	<b>940</b>	<b>6,925</b>	<b>1,020</b>

Source: LM Barbut: IFEAT 2014

Production of roses has been declining over the last few years and this decline is continuing. Production in 2015 was again low due to adverse weather conditions. Late frosts, and excessive spring (March/April/May) rainfall is depressing flowering, encouraging growth rather than flower production. Flower production capacity in a good season is estimated to be in the range 7,000 to 8,000 tonnes. With flower production in this range, rose oil production is in the range 1,500 to 1,600 kgs, and rose concrete in the range 7,000 to 8,000 kgs.

The volume and value of Turkish rose exports is shown in the Table below:

Product	Production volume	Price €/kg	Total export value €
Rose oil	1,275	7,000 – 7,200	8,925,000 – 9,180,000
Rose concrete	5,745	775 - 800	4,452,375 – 4,596,000
Rose absolute	1,000	1,500 – 1,700	1,500,000 – 1,700,000
<b>TOTAL</b>			<b>14,877,375 – 15,476,000</b>

Source: LM Barbut: IFEAT 2014

Production of organic rose oil has started, but production levels are still very low, a few hundred kgs.

<sup>1</sup> Much of the data for this report came from: An Overview of the Essential Oils Industry in Turkey. L.M. Barbut. IFEAT 2014.

The major challenges to the rose oil industry in Turkey finding the labour for cultivation and harvesting, and farming practices, particularly the growing use of pesticides.

Roses are grown in small plots by village families. Increasingly the young do not want to continue in this work, but prefer to move to the towns and cities, or become involved in mechanized agriculture. Sourcing seasonal labour for the harvest is becoming an increasingly critical issue.

## Herb and spice essential oils

The major spice seeds are cultivated throughout Turkey, but the bulk of the herbs harvested for distillation are wild harvested. The major herb and spice essential oils produced are:

- **Oregano oil.** The largest essential oil after rose. Turkey dominates the global support of oregano oil, supplying around 70% of global needs. Annual production in the range 15 to 20 tonnes. The oil is derived from a range of species: *Origanum*, *Thymus*, *Thymbra*, *Coridothymus* and *Satureja*. Most of the oil production is from wild harvested material. Principle areas are in the Aegean and Mediterranean regions, together with some production in Marmara region. *Origanum dubium* gives the highest oil yield, in the range 5 to 8%. Optimum harvest time for oil production is just as the flower buds form.
- **Laurel oil** (Bay; *Laurus nobilis*). Turkey dominates the global supply of laurel oil, supplying around 80% of global needs. Production comes totally from wild plants. The plants occur naturally along the coastlines of the Aegean, Mediterrean and Black Sea, although the high rainfall levels of the Black Sea area create difficulties for drying the leaves and obtaining a good quality product.
- **Cumin seed oil** (*Cuminum cyminum*). Annual production of cumin seed oil is in the range 3.5 tonnes. The crop is cultivated for both the seed trade and distillation of the essential oil. The principal areas of cultivation are in Anatolia, the Aegean, and the southeast regions around Konya, Ankara, Eskisehir, Atyon, Denizli, and Sanliurfa.
- **Sage oil** (*Salvia triloba*). Sage oil in Turkey is produced from *Salvia triloba* (not the *Salvia officinalis* of other Dalmatian and NW European origins). Annual production of sage oil is in the range 1.5 to 2 tonnes. The main component of the oil is 1,8-cineole, differentiating it from thujone rich *S. officinalis* cultivars. Due to the toxicity issues associated with thujone, low-thujone sources of sage leaf and sage oil are finding increasing market interest. Sage is harvested from both wild and cultivated sources.
- **Rosemary oil** (*Rosmarinus officinalis*). Annual production of rosemary oil is in the range 500 to 750 kgs/yr. It is harvested exclusively from wild plants in the eastern Mediterranean region. The crop is supplied both to the herb/spice trade, and to distillation sector.
- **Aniseed oil** (*Pimpinella anisum*). Annual production of aniseed oil is in the range 200 to 300 kgs/yr. The crop is cultivated along the Aegean, which has the hot humid climate required, and harvest is in August. Aniseed is also used to flavour the traditional raki liquor produced in Turkey.
- **Fennel seed oil** (*Foeniculum vulgare*). Annual production of fennel seed oil is in the range 250 to 350 kgs/yr. The main cultivation area is in the Denizli region.
- **Myrtle oil** (*Myrtus communis*). Annual production is in the range 200 to 300 kgs/yr. Harvesting is exclusively from wild plants that occur along the coastlines. The leaf is supplied both into the herb/spice trade, and for distillation.
- **Coriander seed oil** (*Coriandrum sativum*). Annual coriander seed oil production is in the range 200 to 250 kgs/yr. It is mainly cultivated in the middle Anatolia and Aegean regions. Seed production is small scale, and most of the local demand is met by imports.

Market prices for a selection of these oils during 2014 were:

Oregano	70-120 €/kg
Laurel	65-80 €/kg
Myrtle	140 €/kg
Cumin seed	80-120 €/kg
Aniseed	130-180 €/kg

# Price Information

## Conventional essential oils

PLEASE REMEMBER THAT THESE ARE ONLY PRICE INDICATIONS.

Price indications collected from the markets are given for a range of essential oils, below. The oils are grouped *for convenience only* into Spice Oils, Seed Oils, Citrus Oils, Herb Oils and Perfumery Oils. Prices are wholesale for quantities of 25kg or more unless otherwise stated.

### Spice Oils

Product	Origin/Grade	Prices per KG (USUS\$)
Clove bud	Indonesian	USUS\$21/kg 200kg lots
	Indian	USUS\$84/kg 1 kg lots
	Madagascan	USUS\$75/kg 1 kg lots
Clove stem	Indonesian	USUS\$15/kg container
	India	USUS\$50/kg
	Madagascar	USUS\$36/kg 200 kg lots
Clove leaf	Indonesian min. 73%	USUS\$11.00/kg, container
	Indonesian min. 80%	USUS\$12.50/kg
	Indonesian min. 82%	USUS\$13/kg
	Madagascan	USUS\$17/kg
	Indonesian	USUS\$46/kg
	Indonesia	USUS\$18/kg container
Cinnamon bark	Sri Lankan 60/65%	n/a
Cinnamon leaf	Sri Lankan	USUS\$70/kg 1 kg lots
	Madagascar	USUS\$55/kg
Cassia bark	China	USUS\$35/kg; USUS\$70 1 kg lots
Black pepper	Sri Lankan	USUS\$218/kg 1 kg lots
	Indian	USUS\$150/kg; USUS\$195 1 kg lots
Nutmeg	Indonesian (myristicin 7%)	USUS\$30/kg
	Indonesian(myristicin 2%)	USUS\$27/kg
	Indonesian (safrole free)	USUS\$62/kg
Ginger	Chinese	USUS\$105/kg
	Indonesia	USUS\$95/kg
	Indian	USUS\$183/kg 1 kg lots
	Indonesia (red)	USUS\$98/kg
Pimento leaf	Jamaican	USUS\$140/kg
	Jamaican	USUS\$90 container
Pimento berry	Jamaican	€210/kg
	Jamaican	USUS\$154 1 tonne lots
Cardamom	Guatemala	USUS\$185/kg container
		USUS\$210/kg spot

### Spice Seed Oils

Product	Origin/Grade	Prices per KG
Aniseed	China	USUS\$13-16 CIF NW Europe; USUS\$75/kg 1 kg lots
Star Anise	India	USUS\$120/kg
Coriander seed	Russian	USUS\$200/kg
Coriander herb	Russian	USUS\$100/kg drum

Cumin seed	Egypt	USUS\$285/kg 1 kg lots
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## Citrus Oils

Product	Origin/Grade	Prices per KG
Orange (sweet)	Brazilian	USUS\$16/kg; USUS\$30/kg 1 kg lots
	Italy (b/orange c/pressed)	USUS\$33/kg
	Brazil (pera)	USUS\$7/kg container
Orange (bitter)	Italian (c/pressed)	USUS\$45/kg
Bergamot oil	Ivory Coast/Italy	USUS\$80/kg; USUS\$135/kg 1 kg lots
Lemon	Italian	USUS\$58/kg 1 kg lots
	Italian (c/pressed)	USUS\$35
	Argentina	USUS\$55-USUS\$58/kg container
	Brazil	USUS\$55/kg
Lime (distilled)	Italian	n/a
	Mexico/Peru	USUS\$46/kg container; USUS\$62/kg
Lime (cold pressed)		USUS\$25/kg
Mandarin (red)	Italy	USUS\$80/kg
Grapefruit (pink)	Argentina	USUS\$42/kg; USUS\$50/kg 1 kg lots
Grapefruit (white)	France	USUS\$40/kg

## Herb Oils

Product	Origin/Grade	Prices per KG
Basil	Comores	USUS\$125/kg
	Egypt	USUS\$82/kg; USUS\$150/kg 1 kg lots
Lavender	Bulgaria	USUS\$96/kg
	French	USUS\$250/kg
	English	USUS\$200/kg
	Russia	USUS\$95/kg drum
Lavandin	French Grosso	USUS\$30/kg
Spike Lavender	Spain	USUS\$110/kg
Mints	Indian piperita	USUS\$63/kg
	India, mentha arvensis crude, L-menthol 72%	USUS\$13/kg
Menthol	Indian, bold crystals	USUS\$19/kg
	Indian, medium crystals	USUS\$15/kg
	China	USUS\$18/kg
Peppermint menthofuran 3%	China	USUS\$23.50/kg
Peppermint	China	USUS\$15/kg container
Peppermint dementholised	Indian	USUS\$13/kg
Menthone 80/20	Indian	USUS\$16/kg
Menthone 90/10	Indian	USUS\$19/kg
Spearmint 60% carvone	China	USUS\$23/kg
Chamomile (German)	German blue	USUS\$670/kg
	Morocco (wild)	USUS\$450/kg
	Egypt (blue)	USUS\$1,000/kg
Chamomile (Roman)	UK	USUS\$1000/kg
Sage	Croatia	USUS\$130/kg
Rosemary	Portugal/Spain/Tunisia	USUS\$55
	Spain	USUS\$68/kg drum

	France	USUS\$78
Marjoram	Spain (wild)	USUS\$210/kg 1 kg lots
Thyme	Spain	USUS\$67/kg; USUS\$85 1 kg lots

## Perfumery Oils

Product	Origin/Grade	Prices per KG
Eucalyptus globulus & other high cineole types	China	USUS\$13/kg container; USUS\$35/kg 1 kg lots
	Australian	USUS\$44/kg
	China	USUS\$38/kg 1kg lots
	Madagascar	US\$31/kg
Eucalyptus citriadora	China	US\$49/kg 1 kg lots
	Madagascar	US\$25/kg
Litsea cubeba	Spain	US\$22/kg
	China	US\$21/kg container
Ylang ylang	Comores: Extra S	n/a
	Comores : Première	US\$225/kg
	Comores : Deuxième	US\$180/kg
	Comores : Troisième	US\$95/kg
	Comores: Complet	US\$150/kg 1 kg lots
	Madagascar (grade II)	US\$80/kg
Ylang (cananga)	Indonesia	US\$61/kg 1 ton lots
Patchouli - Indonesia	Sulawesi min 26% pa	US\$48/kg
	Sulawesi min 30% pa	US\$51/kg
	Sulawesi min 30% pa, light	US\$52/kg
	Sumatra min 30% pa	US\$62/kg
	Sumatra min 32% pa	US\$67/kg
	Sumatra min 34% pa	US\$72/kg
	Sumatra min 30% pa, light	US\$64/kg
Rose	Bulgaria	US\$5,750/kg
Geranium	Egypt	US\$125/kg
	Egypt	US\$120/kg
	China	US\$155/kg
	Madagascar	US\$310/kg
	Madagascar/France	US\$225/kg
Niaouli (Cineole 1,8) (Malaleuca quinquenervia type I)	Madagascar	US\$16/kg; US\$60/kg 1 kg lots
Niaouli Viridiflora (Malaleuca viridiflora type II)	Madagascar	US\$20/kg
Petitgrain	Paraguay	US\$58/kg drum; US\$98/kg 1 kg lots
Sandalwood	India	US\$2,900/kg
	East Indies	US\$2,500/kg
	Australian	US\$2,025/kg
Cedarwood	USA	US\$52/kg
	China	US\$13/kg container; US\$50/kg 1 kg lots
Frankincense	Somalia/France	US\$270/kg
Citronella	Chinese	US\$18/kg container; US\$23/kg; US\$53 1 kg lots
	Sri Lanka	US\$40/kg container
	Indonesia	US\$16/kg
	Indian	US\$16/kg container; US\$37/kg 1 kg lots
Lemongrass	Madagascar (C. giganteus)	US\$55/kg

<b>Product</b>	<b>Origin/Grade</b>	<b>Prices per KG</b>
Palmarosa	Indian	US\$41/kg; US\$130/kg 1 kg lots
Vetiver	Indonesian	US\$180/kg; US\$380/kg 1 kg lots
	Indonesian	US\$190 rectified
	Indonesian, molecular dist.	US\$225/kg
Tea Tree	Australia	US\$44/kg; US\$90/kg 1 kg lots
	Australia, lemon scented	US\$140/kg
Guaiacwood	Paraguay	US\$25/kg drum
Fennel, bitter	Spain	US\$97/kg
Juniperberry	India	US\$120/kg; US\$260/kg 1 kg lots
Myrrh	India (extract)	US\$133/kg
	India (distilled)	US\$270/kg; US\$395/kg 1 kg lots

# Price Information

## Organic essential oils

PLEASE REMEMBER THAT THESE ARE ONLY PRICE INDICATIONS.

Price indications collected from the markets are given for a range of essential oils, below. The oils are grouped *for convenience only* into Spice Oils, Seed Oils, Citrus Oils, Herb Oils and Perfumery Oils. Prices are wholesale for quantities of 25kg or more unless otherwise stated.

### Spice Oils

Product	Origin/Grade	Prices per KG (USUS\$)
Clove bud	Indian	US\$150/kg
Clove leaf	Indian	US\$75/kg
Cinnamon bark	Sri Lankan	US\$420/kg
Cinnamon leaf	Sri Lankan	US\$110/kg
Nutmeg	Indonesian	US\$172/kg
Ginger		US\$270/kg
	India	US\$170/kg drum

### Spice Seed Oils

Product	Origin/Grade	Prices per KG
Star Anise	China	US\$180/kg
Cumin seed	Egypt	US\$90/kg

### Citrus Oils

Product	Origin/Grade	Prices per KG
Orange (sweet)	Italian (c/pressed)	US\$36/kg
Orange (bitter)	Italian (c/pressed)	US\$135/kg
Bergamot	Italy (c/pressed)	US\$195/kg
Lemon	Italian (c/pressed)	US\$60/kg
	Italian (c/pressed)	US\$71/kg
	Argentina	US\$75
Mandarin (red)	Italy	US\$225/kg
Mandarin (green)	Italy	US\$187/kg
Clementine	Italy	US\$120/kg
Petitgrain (C. aurantium)	Paraguay	US\$110/kg

### Herb Oils

Product	Origin/Grade	Prices per KG
Basil	Egypt	US\$187/kg
	India	n/a
Lavender	France	US\$210/kg
Lavandin	French Grosso	US\$55/kg
Mint, peppermint	USA	US\$90/kg
	India	US\$65/kg drum
Mint, Cornmint	India, mentha arvensis	US\$52/kg
Mint, spearmint, M. spicata	USA	US\$112/kg
Chamomile (German)	Nepal	US\$780/kg

Product	Origin/Grade	Prices per KG
	India	US\$1,250/kg
Chamomile (Roman)	Hungary	US\$1,500/kg
Sage	Croatia	US\$240/kg
Rosemary	Spain	US\$42/kg
	Tunisia	US\$25/kg
Marjoram	Spain	US\$330/kg
Thyme	Hungary	US\$300/kg
	India	US\$65/kg
Fennel	India	130/kg

## Perfumery Oils

Product	Origin/Grade	Prices per KG
Eucalyptus radiata & other high cineole types	China	US\$64/kg
E. globulus	India	US\$45/kg (60%)
	India	US\$50/kg (80%)
E. polybractea	Australian	US\$135/kg
E. smithii	South Africa	US\$75/kg
Eucalyptus citriodora	Brazil	US\$52/kg
	India	46/kg
Litsea cubeba	Spain	US\$35/kg
Ylang ylang	Comores: I	US\$225/kg
	Comores : II	US\$180/kg
	Comores : III	US\$210/kg
	Comores: Complet	US\$330/kg
Patchouli	Indonesia	US\$175/kg;
Geranium	Egypt	US\$375/kg 1 kg lots
Sandalwood	Sri Lanka	US\$1,950/kg 1 kg lots
Cedarwood	USA	US\$63/kg
Naouli		US\$97/kg
Ravinsara	Madagascar	US\$275/kg 10 kg lots
Frankincense	Somalia/France	US\$525/kg 1 kg lots
	India (B. serrata)	US\$78/kg drum
Pine (P. silvestris)	Hungary	US\$190/kg
Citronella	Sri Lanka	US\$100/kg
	India	US\$63/kg
Lemongrass	Nepal	US\$75/kg
Palmarosa		US\$80/kg
	India	US\$70/kg
Vetiver	Indonesian	US\$450/kg 1 kg lots
	Indian	US\$350/kg
Tea Tree	Australia	US\$90/kg;
	Australia, lemon scented	US\$225/kg
Fennel, sweet	Bulgaria	US\$150/kg
Juniperberry	India	US\$225/kg
Myrrh	Africa	US\$1,800/kg



# Suppliers of Equipment

## Suppliers to the African market

The distillation and extraction industry in Africa is relatively small and localised outside of the North African centers of Egypt and Morocco, and Southern Africa (South Africa, Swaziland). New entrants to the industry can find it hard to identify suppliers of equipment (stills, condensers, extractor vessels etc) in stainless steel, steam boilers, and other necessary materials (drums, jugs, filter papers etc).

The development of the industry in Africa would benefit greatly if there was greater sharing of information on the location of suppliers. New entrants would find it easier to identify necessary suppliers, and the concentration of orders on particular suppliers would encourage the development of skills and expertise – this is particularly necessary in the areas of fabrication of stainless steel vessels and condensers.

Some contacts of companies involved in the manufacture of distillation/extraction equipment or the capability to do so (primarily the capability to work with stainless steel) or supply of materials based in East Africa are given below.

**The Newsletter would welcome information from Readers on other suppliers of relevant equipment and materials from all regions of Africa, so that the listing can be expanded.**  
Please send any information to [marketinsider@intracen.org](mailto:marketinsider@intracen.org)

The contacts are provided as a service only. NO RECOMMENDATION IS IMPLIED.

### 1. MANUFACTURE OF STAINLESS STEEL DISTILLATION EQUIPMENT:

#### KENYA:

ASL – Heavy Fabrication Division  
Ramco Industrial Park  
Mombassa Road  
PO Box 18639-00500  
Nairobi. Kenya  
Tel: +254 20 821567/820296/820394  
Fax: +254 20 820169/651893  
[bm@heavyfab.co.ke](mailto:bm@heavyfab.co.ke)  
Attn: Mr Ve Balamurali, General Manager

Warren Enterprises Ltd  
PO Box 8251  
Nairobi. Kenya  
Tel: +254 20 8561 932/3/4  
Fax: +254 20 8561 013  
Attn: Mr S Ramaswamy, Managing Director

Morris Steel & Company  
Mogadishu Road  
PO Box 18310  
Nairobi. Kenya  
Tel: +254 20 533 627  
Attn: General Manager

## **UGANDA:**

### **Specialised Welding Services** (previously Kasise Kleinsmedie Uganda Ltd)

Jinja Road, Plot 96  
PO Box 40115  
Nakawa Vocational Training Center  
Kampala  
Uganda  
Tel: +256 (776) 405060/405070/405080  
+256 (772) 227 003 (Samantha Moray)  
[sam.moray@sws.co.ug](mailto:sam.moray@sws.co.ug)  
Attn: Samantha Moray, General Manager  
[www.sws.co.ug](http://www.sws.co.ug)

## **MADAGASCAR:**

Societe Aris Trading  
Lot VB 81X Ambatoroka  
101-Antananarivo. Madagascar  
Tel: +261 20 24 264 96  
Fax: +261 20 22 290 24  
[aristrading@freenet.mg](mailto:aristrading@freenet.mg)  
Attn: Mr James Davidson

ATICOM  
Lot IT 91A Itaosy  
102 Antananarivo – Atsimondrano. Madagascar  
Tel: +261 32 07 744 34  
[morasatajoso@ yahoo.fr](mailto:morasatajoso@ yahoo.fr)  
Attn: Josoa Andriamorasata

## **SOUTH AFRICA:**

EDESA (Essential Distillation Equipment)  
PO Box 123  
Riebeek Kasteel 7306  
Western Cape. South Africa  
Tel: +27 (82) 334 3324  
fax: 0866 088508  
[info@edesa.co.za](mailto:info@edesa.co.za)  
[werner.ede@vodamail.co.za](mailto:werner.ede@vodamail.co.za)  
[www.edesa.co.za](http://www.edesa.co.za)  
[www.stillpure.co.za](http://www.stillpure.co.za)  
Skype: werner.bester2  
Attn: Werner Bester  
Manufacture of distillation equipment and sales of used equipment.

BENCO PLANT & ENGINEERING (PTY) Ltd  
159 Van Eeden Crescent, Rosslyn, Karin Park  
P O Box 59. Pretoria, Gauteng. South Africa  
Tel: +27 (12) 541-0398  
Fax: +27 (12) 541-0399  
Attn: Sloam Durbach  
Manufacturer of distillation equipment and steam boilers

POWERSAVE  
PO Box 699  
Hilton 3245. South Africa  
Tel (cell): +27 82 493 8670  
Fax: +27 33 34 33 755

Attn: Greg Rowe  
[gregrowe@telcomsa.net](mailto:gregrowe@telcomsa.net)  
Manufacture of steam distillation plants

Henry S Komar & Associates CC  
2 Hebel Road, Roodepoort, Gauteng, South Africa  
Postal address: PO Box 994, Honeydew 2040, South Africa  
Tel: +27 11 760 2718  
Fax: +27 11 760 1079  
Attn: Stan Kumar, CEO  
[info@komar.co.za](mailto:info@komar.co.za); [sales@komar.co.za](mailto:sales@komar.co.za)  
[www.komar.co.za](http://www.komar.co.za)

Manufacture of stainless steel distillation and processing equipment. Also sales of secondhand equipment.

THE PROCESS TEAM CC  
37 Nelson Road, Amanzimtoti  
Kwa-Zulu Natal 4126. South Africa  
Attn: Peter Myburg

Design and manufacture of stainless steel distillation equipment.

## **2. SUPPLIERS OF STEAM BOILERS**

### **MADAGASCAR**

ARTICOM  
Lot IT 91A Itaosy  
102 Antananarivo – Atsimondrano. Madagascar  
Tel: +261 32 07 744 34  
[morasatajoso@yahoo.fr](mailto:morasatajoso@yahoo.fr)  
Attn: Josoa Andriamorasata

ARTICOM make a simple, low pressure, wood fired steam boiler.

### **KENYA:**

Industrial Boiler Products Co. Ltd.  
Kampala Road, Industrial Area  
Nairobi, Kenya.  
+254 733 700175  
[mail@industrialboilerproducts.co.ke](mailto:mail@industrialboilerproducts.co.ke)  
[peter.fernandes@industrialboilerproducts.co.ke](mailto:peter.fernandes@industrialboilerproducts.co.ke)  
Peter Fernandes  
[www.ibp.co.ke](http://www.ibp.co.ke)  
Indian manufactured steam boilers; biomass fired.

Boiler Consortium Africa (BCA) Ltd  
PO Box 60780. Nairobi. Kenya  
Tel: +254 20 557837/ 536793/ 4349310  
Tel: +254 722 750131/ 703511/  
Fax: +254 20 735 331177  
Barry Corlines  
[info@boilersafrica.com](mailto:info@boilersafrica.com)  
[www.boilersafrica.com](http://www.boilersafrica.com)

BCA design, manufacture and commission boilers, included wood fired steam boilers, and are agents for Riello in East Africa.

## **SOUTH AFRICA:**

Combustion Technology South Africa  
PO Box 30047. Tokai, 7966 Cape Town, South Africa  
Tel: +27 21 715 3171  
Fax: +27 21 715 6297  
[www.combustiontechnology.co.za](http://www.combustiontechnology.co.za)

Combustion Technology are the exclusive Southern African distributors of Riello burners and Garioni Naval Boilers.

BENCO PLANT & ENGINEERING (PTY) Ltd  
159 Van Eeden Crescent, Rosslyn, Karin Park  
P O Box 59. Pretoria, Gauteng. South Africa  
Tel: +27 (12) 541-0398  
Fax: +27 (12) 541-0399  
Attn: Sloam Durbach  
Manufacturer of distillation equipment and steam boilers

CAPE BOILER  
16 Natal Street, Parden Island, Cape Town, South Africa  
Tel: +27 21 511 6652  
Fax: +27 511 4415  
Attn: Mr Nic Kellerman

## **INDIA:**

Firetech Boilers Pvt Ltd  
FIRETECH HOUSE, No.211, 2nd Cross, 38th Main,  
B.T.M Layout, 2nd Stage, Bangalore 560 068. India  
Tel: +91-80-6683686; Fax: +91-80-6683921  
Email: [firetech@vsnl.net](mailto:firetech@vsnl.net)  
Manufacture of wood fired steam boilers. Indian manufacturer, but has supplied boilers to Africa.

## **AUSTRIA:**

Binder GMBH  
Mitterdorferstr. 5  
8572 Barnbach  
Austria  
Email: [office@binder-gmbh.at](mailto:office@binder-gmbh.at)  
Tel: +43 3142 22544-0  
Fax: +43 3142 22544-16  
[www.binder-gmbh.at](http://www.binder-gmbh.at)

Binder Agents in UK:  
Wood Energy Ltd, Severn House, 1-4 Fountain Court, Bradley Stoke, Bristol. BS32 4LA  
[www.woodenergyltd.co.uk](http://www.woodenergyltd.co.uk)

Kohlbach Group  
Grazer StraBe 23  
A-9400 Wolfsberg  
Austria  
Email: [office@kohlbach.at](mailto:office@kohlbach.at)  
Tel: +43 4352 2157-0  
Fax: +43 4352 2157-290  
[www.kohlbach.at](http://www.kohlbach.at)

## **USA:**

Hurst Boiler & Welding Company, Inc.  
100 Boilermaker Lane  
Coolidge, GA 31738-0530  
USA  
Phone: +1 229-346-3545  
Fax: +1 229-346-3874  
Email: [info@hurstboiler.com](mailto:info@hurstboiler.com)  
[www.hurstboiler.com](http://www.hurstboiler.com)

### **3. SUPPLIERS OF MATERIALS AND EQUIPMENT**

#### **(a) Forklift trucks/pallet trucks**

Forktruck Solutions  
16 Kiewiet Close, Okavango Park, Brackenfel 7560, Cape Town. South Africa  
Postal address: PO Box 3221, Durbanville 7551. South Africa  
Tel: +27 21 982 1142 and +27 21 981 2649;  
Cell: +27 83 2848 557  
Fax: +27 21 982 1141  
Attn: Dirk van der Westhuizen  
[dirk@forktrucksolutions.co.za](mailto:dirk@forktrucksolutions.co.za)  
[www.forktrucksolutions.co.za](http://www.forktrucksolutions.co.za)

Sales and rental of new and used forklift trucks. Also pallet jacks/stackers and range of other warehouse equipment.

#### **(b) Hoists and lifting equipment**

Blue Cranes,  
Crane House, 10 Mansell Road, Killarney Gardens, Minerton, Cape Town, South Africa  
Postal address: PO Box 702, Melkbosstrand 7437. South Africa  
Tel: +27 21 556 0498/9  
Fax: +27 21 556 0486  
Attn: Mr Kobus Steyn  
[joseph@bluecranes.co.za](mailto:joseph@bluecranes.co.za)  
[www.bluecranes.co.za](http://www.bluecranes.co.za)

Manufactures full range of hoists, beam girder cranes and lifting equipment. Sole supplier of Liftket electric chain hoists and wire rope hoist units. Repairs and spare parts supply service. Supply of associated slings, chains, blocks etc.

#### **(c) Essential oil drums:**

Greif supply a range of steel and coated drums, and are present in 45 countries around the world.

Greif Kenya Ltd  
Box9036 - Unga Street  
Shimanzi – Mombasa. Kenya  
Tel: +254 41 2495591  
Fax: +254 41 2494038  
[pascal.wanyonyi@greif.co.ke](mailto:pascal.wanyonyi@greif.co.ke)  
Attn: Pascal Wanyonyi

Greif Nigeria Ltd  
Apapa, Nigeria  
Phone +234 (01) 587 0866  
Fax +234 (01) 587 3084  
[vanleer@linkserve.com.ng](mailto:vanleer@linkserve.com.ng)  
Attn: Olukunle Obadina,

Greif South Africa Ltd  
Vanderbijlpark, South Africa  
Phone +27 (0) 16 930 1100  
Fax +27 (0) 16 930 1106  
[carl.williams@grief.com](mailto:carl.williams@grief.com)  
Attn: Carl Williams  
Website: [www.greif.co.za](http://www.greif.co.za)

Greif Mozambique  
Maputo, Mozambique  
Phone +258 21 720153  
Fax +258 21 720724  
[vanleer@vironn.com](mailto:vanleer@vironn.com)

Greif Egypt  
Cairo, Egypt  
Phone +20 2588 1110  
Fax +20 2593 3889  
E-mail: [koracons@link.com.eg](mailto:koracons@link.com.eg)  
Attn: Ayman Korra

Greif Algeria  
Arzew, Algeria  
Phone + 213 41473723 / + 213 41473724  
Fax + 213 41473730  
[Mohamed.Gherbi@Greif.com](mailto:Mohamed.Gherbi@Greif.com)  
Attn: Mohamed Gherbi

#### **CHINA:**

##### **Guangzhou New Jinrong Coopery Co. Ltd.**

No.7 Huancui xi road  
Cuishanhu new district  
Kaiping  
Guangdong, China  
**Ms. Lucinda Lux**  
Tel : +86 159 14338971,+86 18620468156, 0750-2889978  
Fax: +86 7502889978  
Email: [newjinrong@163.com](mailto:newjinrong@163.com); [paul\\_chew@163.com](mailto:paul_chew@163.com)  
SKYPE: xpyllj74

#### **INDIA:**

##### **Al-Can Exports Pvt Ltd**

Sheetal Industrial Estate, Kashimira Road,  
Bhayander East District,  
Thane 401 105  
India.  
Tel: +91 22 2819 3122  
Fax: +91 22 2814 2477  
Email: [info@alcanexports.com](mailto:info@alcanexports.com)  
Large range of aluminium flasks and bottles.

## FRANCE:

### **Tournaire SA**

70, Route de la Paoute

Le Plan.

BP 71004

06131 Grasse Cedex

France

Tel: +33 493 09 34 34

Fax: +33 493 09 34 00

Email: [tournaire@tournaire.fr](mailto:tournaire@tournaire.fr)

Tournaire do a very wide range of aluminium bottles.

### **(d) Secondhand/used equipment**

Secondhand equipment, particularly stills and condensers, can represent very good value. Details are given for 2 companies which have experience of shipping worldwide, and sometimes have distillation equipment in stock.

Perry Process Equipment Ltd

Station Road

Aycliffe Business Park

Newton Aycliffe

County Durham. DL5 6EQ. UK

Phone: +44 1325 315111

Fax: +44 1325 301496

[info@perryprocess.co.uk](mailto:info@perryprocess.co.uk)

Website: [www.perryprocess.co.uk](http://www.perryprocess.co.uk)

Perry Process Equipment is the European headquarters of the Perry Group of companies, which has operations around the world and is one of the worlds largest dealers in secondhand process equipment.

Centriplant Ltd

Littlemead Industrial Estate

Alfold Road

Cranleigh

Surrey. GU6 8ND

UK

Phone: +44 (01483) 271507

Fax: +44 (01483) 278183

Contact: Mark Williams [markw@centriplant.co.uk](mailto:markw@centriplant.co.uk)

Website: [www.centriplant.co.uk](http://www.centriplant.co.uk)

Centriplant has distillation plants on an occasional basis, but always have a range of stainless steel tanks, and bottling/packing lines that could also be of interest to producers.

# Events Calendar

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Hi Japan

7-9 October 2015. Tokyo, Japan

[www.figlobal.com/japan](http://www.figlobal.com/japan)

Beauty Uzbekistan

8-10 October 2015. Taskent, Uzbekistan

[www.beauty-events.com/Beauty-Uzbekistan](http://www.beauty-events.com/Beauty-Uzbekistan)

Anuga 2015

10-14 October 2015. Cologne. Germany

[www.anuga.com](http://www.anuga.com)

Cosmobeaute Indonesia

15-17 October. Jakarta. Indonesia

[www.beauty-events.com/Cosmobeauty-Indonesia](http://www.beauty-events.com/Cosmobeauty-Indonesia)

Flavorcon 2015

15-15 November 2015. Atlantic City, USA

[www.flavorcon.com](http://www.flavorcon.com)

Fi Europe & Ni 2015

1-3 December 2015. Paris, France

[www.foodingredientsglobal.com/en/europe/home](http://www.foodingredientsglobal.com/en/europe/home)

Cosme Tokyo 2016

20-22 January 2016. Tokyo, Japan

[www.cosmetokyo.jp/en/ex](http://www.cosmetokyo.jp/en/ex)

Cosme Tech 2016

20-22 January 2016. Tokyo, Japan

[www.cosme-i.jp/en](http://www.cosme-i.jp/en)

International Spice Conference

21-24 January 2016. Goa, India

[www.internationalspiceconference.com](http://www.internationalspiceconference.com)

American Spice Trade Association Annual Meeting

10-13 April 2016. Scottsdale, AZ, USA

[www.astaspice.org](http://www.astaspice.org)

Beauty Eurasia 2016

21-23 April 2016. Istanbul, Turkey

[www.beauty-events.com/Beauty-Eurasia](http://www.beauty-events.com/Beauty-Eurasia)

Cosmobeaute Vietnam

21-23 April 2016. Saigon, Vietnam

[www.beauty-events.com/Cosmobeaute-Vietnam](http://www.beauty-events.com/Cosmobeaute-Vietnam)

World Perfumery Congress 2016

13-15 June 2016. Florida, USA

<http://wpc.perfumerflavorist.com>

Cosmobeaute Asia

18-21 July 2016. Kuala Lumpur, Malaysia

[www.beauty-events.com/Cosmobeaute-Asia](http://www.beauty-events.com/Cosmobeaute-Asia)

BiobasedWorld Tradeshow

15-16 February 2017. Cologne, Germany

[www.boiobasedworld.de/en/home.html](http://www.boiobasedworld.de/en/home.html)