



New Perfume Materials

New perfume materials from France, Japan, and the United States were presented during the International Perfumery Congress in Portugal in February 1986. The material descriptions are included in this report.

Synarome

Monique Fraysse, President of Synarome, introduced three new raw materials.

Aldambre is a macrocyclic lactone. Although already a well-established series, these products can still be interesting because of the different odor aspects depending on the chemical processes used in manufacture and degrees of purity obtained.

Aldambre has a strong musky/amber note; its

interest is its dry musky with wood connotation. Its character makes it extremely suitable for men's fragrances. Due to its power, we advise it to be used as a 10% solution when formulating. Although expensive, the required modifications can be achieved with between 0.2% and 0.3%. It has good stability in creams, soaps, shampoos, hair conditioners and detergents.

Another interesting application for *Aldambre* is its use in musky raw materials. Adding 20% of *Aldambre* to *Synolide*, a Synarome musk specialty, results in greater character, increased power and tenacity.

Jasmylone belongs to the familiar series of iso-jasmone. Synarome has extensive experience working with jasmone and iso-jasmone because of being producers of cis-jasmone in large quantities as well as holding the manufacturing patents on cis-jasmone production.

Jasmylone has two isomers and does not contain hexylidene cyclopentanone, a sensitizer, which is one iso-jasmone.

Jasmylone has a strong floral note reminiscent of the jasmin absolute note of which it is part. The note also recalls the so-called "white flower" note which is so much in fashion today.

Delegates smell the Synarome materials. Gilbert Sicre (left) is director of sales and Mme. Fraysse (second from right) is president.

Jasmylone should mainly be used in floral compositions at between 1% to 4%. At these percentages it will bring a strong, warm floral note. In jasmin bases it can be used at between 3% and 6%, but also as an interesting modifier to a formula at between 0.3% and 1%. Although expensive, its price is lower than that of cis-jasmone and gives a less characteristic jasmin note to the composition. It is stable in creams, shampoos, conditioners and antiperspirants.

Mossenate is a specialty based on an extremely strong and very stable chemical. It has a green, slightly acrid note, rather comparable with that of iso butyl quinoline. It also has a tobacco note and some aspects of orris resinoid. The interest of this product is that it is far less expensive than iso butyl quinoline, very stable and does not cause discoloration. It is stable in shampoos, soaps, detergents, antiperspirants and fabric softeners.

SCM

The Aroma and Flavor Group of SCM Corporation, from its inception as a producer of naval stores in 1909 to its present position as a world leader in terpene-based aroma chemicals, has depended upon technological innovation for its growth. The group started as the Standard Turpentine Company in 1909, became a part of the Glidden Company in 1936, joined the SCM Corporation in 1967, and very recently became a part of Hanson Trust.

A major breakthrough in processing technology was introduced in 1982 when the new SCM manufacturing facility in Colonels Island, Georgia, was dedicated. Whereas, in the past SCM

was dependent on beta-pinene for the manufacture of such aroma chemicals and intermediates as linalool, geraniol, citral, citronellal, and hydroxycitronellal, new technology used the much more available alpha-pinene. Moreover, new SCM technology (see figure 1) has the advantage of using relatively innocuous reagents compared to those of the beta-pinene process.

Yet another advantage of the Colonels Island process lies in that it allows access not only to unique qualities of standard aroma chemicals, but also to previously unavailable and, in some cases, previously unknown materials. Thus, SCM has introduced such products as Linalool Special and Linalyl Acetate Special, which can be used in place of standard qualities in most formulations; and Lavandex® (a 93% Linalyl Acetate), Nerolex™, and Geraniol Extra which are interesting variations of known materials.

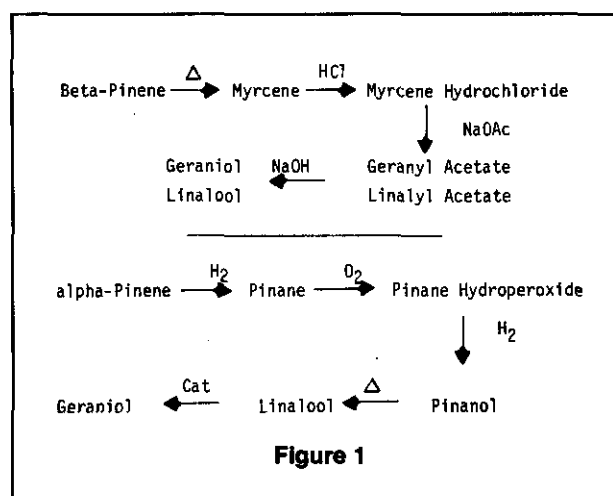


Figure 1

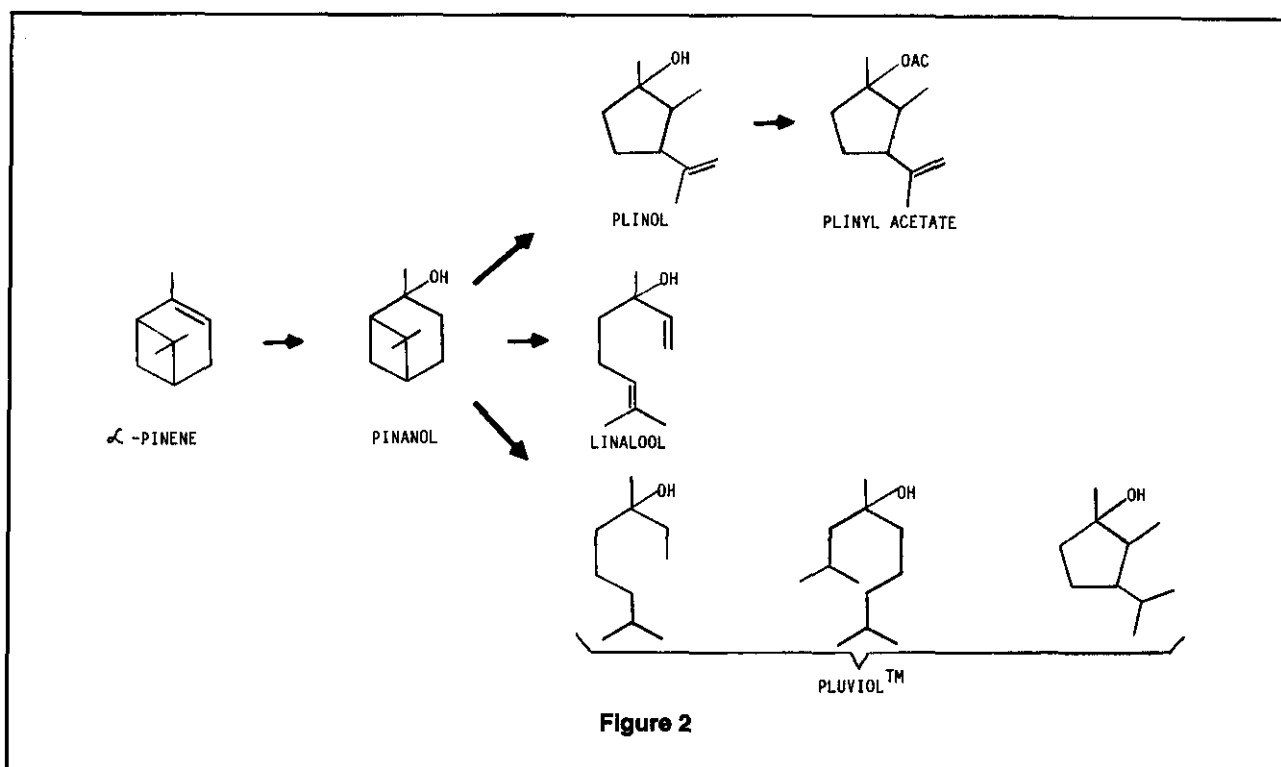


Figure 2

Carlos Cardenas, PhD, Director, Commercial Development for SCM, introduced Plinol, Plinyl

Acetate, and Pluviol™ which have become available by relatively simple adjustments to the alpha-pinene to linalool process (see figure 2). These materials have unique organoleptic characteristics that will prove to be very useful on the perfumer's palette.

Plinol provides a very fresh and diffusive floral note in the magnolia and honeysuckle family. It gives life and vibrance and a blooming effect to floral blends such as gardenia, tuberose, and plumeria while offering a spicy herbaceous character in the coriander family. Thus, it can be used to provide spiciness in carnation and lilac formulations as well as other spicy florals.

Plinol's stability at pH 3.5-11.0 and its relatively low price of \$3.50/lb make it especially applicable in cleaners and liquid detergent formulations.

Plinyl Acetate has a very different herbaceous character. It starts with a mild chamomile note and moves into some aspects of clary sage with warm, amber effects and a freshly-cut wood hint

in the background. It works well with patchouli and modern woody notes such as acetyl cedrene.

We see the main application of Plinyl Acetate to be in men's products, but it will not be limited to them. It will have broad utility in colognes and soap fragrances where herbaceous and woody notes are desired.

Plinyl Acetate is remarkably stable at pH 3.5-11.0 and quite long-lasting. Its price of \$3.75/lb will make it very appealing for use at high levels in many formulations.

Of the three, *Pluviol* is perhaps the most unusual. It gives us a mental image of wetness, of running water. It reminds us of strolling along the mossy bank of a stream or walking into a shady area. *Pluviol* is remarkably diffusive, especially in compounds, where it gives much freshness and wetness.

Pluviol also has a floral undertone with a slight privet note. Its character makes it very useful in floral blends, in general, where it provides wet, green, and fresh notes.

Pluviol can be used in a tremendous range of applications, such as fabric softeners, hair products, bath products, and detergents. Like the other products, *Pluvol's* odor is very stable at a pH of 3.5-11.0, allowing it to be used in a variety of applications.

Pluviol is available in drum quantities at \$4.00/lb.

All of these products have successfully undergone safety testing under the IFRA protocol. Safety data and samples are available on request.

The SCM Display

Nickstadt-Moeller

Nickstadt-Moeller and Noville have been in business for approximately thirty years. Nickstadt-Moeller's original charge was to provide different and unique raw materials for Noville perfumers. In 1980 a decision was made to make these materials available in the marketplace.

William J. Wichmann, Director of Operations, and John Porter, Corporate Vice-President, Director of Fragrance R&D, introduced two new materials.

W. J. Wichmann

J. Porter

Arosa B-440 is a single chemical, floral, rosy, aldehydic, fresh, and clean in character. Lacking the fattiness of the aliphatic aldehyde, it possesses instead a soft, sweet waxiness.

One of the acetals of undecylenic aldehyde, *Arosa* can be used in the same manner as the aldehyde. It imparts freshness to floral, woody, and powder notes. The soft, sweet, waxy background adds naturalness to synthetic floral notes, particularly rose, geranium, and orris.

Arosa finds application in laundry and bath products, cosmetics, toiletries, and in fine fragrances.

It has good stability over a wide range of product application, non-discoloring, typical for acetal.

Octano Nitrile B-2132 at a 10% solution was the second material introduced. Nickstadt-Moeller has tried several of the published procedures for making nitriles and many of them had the very metallic nitrile-type odor associated with them. It was not until it explored the process of converting from the aldehyde to the oxime that a nitrile with little to none of this characteristic metallic note was produced.

Octano Nitrile B-2132 is a single chemical, strong, orrisy, waxy floral, coumarin sweet, spicy, coconutty and aldehydic in character. It adds an orris character to ionone and violet blends; provides depth, richness, and body to modern floral bouquets; gives a powdery effect to sandalwood notes; imparts softness and richness to other wood notes. It enhances powder notes and is useful in lavender blends where the coumarin-like sweetness will enhance the overall effect.

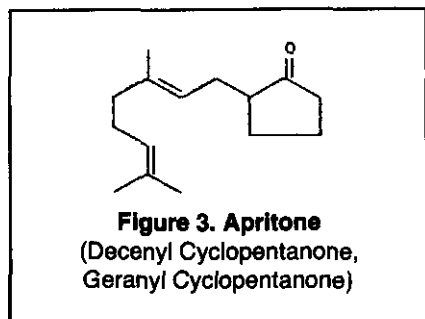
Octano Nitrile is useful in functional and personal care products, including cold wave lotions and depilatories, as well as in fine fragrances. It has a typical stability of a nitrile, from slightly acidic to very basic pH range. Its strength and multi-faceted odor character make *Octano Nitrile* an interesting and versatile addition to the perfumer's palette.

The Emery Display. Jerry Bertrand (right) is Manager, Aroma Chemicals

Bedoukian Research

Bedoukian Research was founded fourteen years ago by Paul Bedoukian to fill a need for a company to be a reliable source for specialty chemicals for the flavor and fragrance industry. Today, Bedoukian Research supplies over four-hundred items to the industry. Robert Bedoukian, Vice-President, introduced two aroma chemicals.

The first is *Apritone* (figure 3). Apritone offers a fresh, apricot fruity note with a hint of the kernel character. It is reminiscent of the ripe fruit, and as a 15 carbon ketone is extremely long lasting (up to two weeks on the blotter). This puts it in

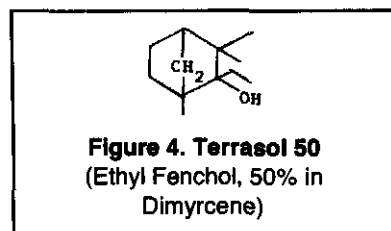


the range of materials such as cis-3-hexenyl salicylate or the natural musks but offering an entirely different effect.

Apritone can be used at up to 1% when a fruity nuance is desired; special and interesting effects in many florals will be obtained using up to 5%.

This specialty is applicable to all products from fine fragrances to shampoos and soaps. It is stable to a wide range of pH and is not known to cause discoloration.

The second material Bedoukian introduced is called *Terrasol 50* (figure 4). It is a 50% dilution of a 12 carbon alcohol, 2-ethyl fenchol, in dimyrcene. Terrasol 50 is best shown at 1-5% strength.



Terrasol offers a powerful, extremely diffusive and lasting earthy note, with a root-like nuance. Terrasol presents some aspects of vetivert, as well as patchouly and oakmoss.

Terrasol can be used to enhance most woody, mossy and earthy accords. It blends exceptionally well with the quinoline series.

Terrasol can be used from 0.2% to 0.5% to give diffusiveness and brightness to many fragrances. Up to 1% Terrasol will cover soap and detergent base odors while giving the total fragrance a tremendous boost.

The Kao Display

Kao Corporation

Kao Corporation is a leading company in Japan in the field of consumer products and surfactants. Consumer products include a full range of detergents, soaps, household products, haircare products and cosmetics. Kao operates eight plants in Japan. Aroma chemicals are produced in the largest one, the Wakayama plant.

Kao has nine laboratories, one of which, the Tochigi laboratory, has more than one-thousand-five-hundred researchers performing high-level basic and applied research.

Motoki Nakajima, Director of the Perfumery Department, presented three specialties.

Chinchilol, a cyclic alcohol, has a very powerful and diffusive earthy woody note, reminiscent of a patchouli top note. It also has an ambergris character.

Chinchilol is used in the top note of compositions, adding a natural earthy and woody character to give freshness and sweetness to all fragrances and is particularly effective in men's fragrances. It is very effective if used with patchouli, lavender, bergamot, ionones and ambergris compounds. It is priced at US\$ 150/Kg FOB.

Sagetone V, a cyclic ketone, has a sweet woody amber note reminiscent of clary sage. It also has a delicate woody character of vetiverol. It blends well with most woody notes and gives a sweetness to all types of fragrances. It is of particular

interest in woody and oriental compounds and has considerable potential for men's fragrances. It is priced at US\$ 130/Kg FOB.

Pyranvert, an isomeric mixture of unsaturated ethers, has a fresh natural green note with slightly fruity background. It gives wonderful freshness to all fragrances, and has wide uses from fine fragrances to toiletry fragrances. It is particularly effective in citrus, floral, natural green and fruity fragrances. It is priced at US\$ 60/Kg FOB.

All three of these specialties have good stability and are nondiscoloring except in toilet cleaner and liquid bleach.

**John Hiller,
PhD,
Lehn & Fink
Products**

In addition to these five presentations, two displays of new materials were shown by Jerry Bertrand of Emery Industries and by Gerhard Schindler of BASF.

For further information, contact each of the individual suppliers directly or contact the publisher.

