

# STRAHL & PITTSCH



Finest Natural Waxes Since 1904



The *Natural* Choice

Waxes	Source	Grades	Colors	Forms	Uses & Special Features
BEESWAX	Honeycomb of the Bee	Crude, bleached, re-fined yellow, white, cosmetic	Cream-white to dark brown	Cakes, slabs, pastilles, granular.	Color Cosmetics, Lip Care, Mascara, Eye Makeup, Hair Wax, Creams, Lotions, Pharmaceuticals, Ointments, Tablet Coatings, Confectionary Glazes, Candles.
CANDELILLA	Scales covering reed like plants in Texas and Mexico	Crude, Refined, Bleached	Light brown to light yellow.	Crude lumps, refined lumps, flakes, granular, & powder	Color Cosmetics, Lip Care, Mascara, Eye Makeup, Hair Wax, Pharmaceuticals, Tablet Coatings, Polishes, Precision Casting, Adhesives, Chewing Gum Base.
CARNAUBA	Exuded by the leaves of Brazilian "Tree of Life"	No. 1 Yellow (Type 1) NC #3 Light (Type 3) NC#3 Dark (Type 4-Filtered) NC#3 Centrifuged (Type 4)	Yellow to brownish green.	Lumps, flakes, granular, & powder	Color Cosmetics, Lip Care, Mascara, Eye Makeup, Pharmaceuticals, Ointments, Tablet Coatings, Confectionary Glazes, Investment Casting, Polishes, , Inks and Thermal Transfer Ribbon Coating, Fruit Wax Emulsion.
CERESINE & OZOKERITE	Formulated hydrocarbons	Specific to melting point, penetration, and gel strength.	White	Slabs, pastilles, & granular.	Color Cosmetics, Lip Care, Mascara, Eye Makeup, Hair Wax, Creams, Lotions, Pharmaceuticals, Ointments, Coatings, Lubricants, Waterproofing, Adhesives.
PARAFFIN & MICROCRYSTALLINE	Petroleum Waxes	Refined to Melt point & Color	White to Yellow	Slabs, & pastilles.	Cosmetics, Color Cosmetics, Lip Care, Mascara, Eye Makeup, Hair Wax, Creams, Lotions, Pharmaceuticals, Ointments, Coatings, Hot-Melt Adhesives, Polishes, and Candles.
NATURAL WAX JELLY	Natural Waxes and Oils	Custom formulated to melt point, penetration, viscosity, & gel strength.	Consult Factory	Consult Factory	As per customer requirements.
NATURAL BUTTERS	Vegetable butters	Olive Avocado Golden Jojoba Sunflower Sweet Almond	White to Green	Paste	Cosmetics, Color Cosmetics, Lip Care, Mascara, Eye Makeup, Hair Wax, Creams, Lotions, Pharmaceuticals, Ointments,
POLYETHYLENE WAX	Petroleum Derived	PE 400 PE 500 PE 600 PE 655 PE 1000 PE 2000	White	Pastilles	Cosmetics, Color Cosmetics, Hair Waxes & Pomades, Dental Waxes, Emulsions, and Gels.
PURESTER	NON GMO vegetable based renewable feedstock.	Purester 24- Lauryl Laurate Purester 34- Stearyl Palmitate Purester 40- Stearyl Behenate	White to Off-White	Pail & Pastilles	Cosmetics, Color Cosmetics, Lip Care, Mascara, Eye Makeup, Hair Wax, Creams, Lotions, Pharmaceuticals, Ointments,

# STRAHL & PITSCCH

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## BROAD RANGE OF PRODUCTS

In our many years, we've created hundreds of specialized formulas - one of which may be just what you're looking for. Our inventory of products available off-the-shelf, in bulk quantities, numbers above two hundred at any given time. Most likely, we already have exactly what you need to improve your product's performance - - And we can ship it immediately. If you have a unique requirement, the skilled chemists in our modern laboratory will work with you closely, through testing and blending, toward developing the formulation best suited to your product.

## BLENDING THE OLD AND THE NEW

Considering that our scientific know-how is as modern as the world in which we live, we scrupulously maintain some old-fashioned ways of doing business. We're small enough by design to react to the needs of the market on a moment's notice, yet large enough in capacity and staff to fulfill your most demanding requirements. The relationships we maintain with our suppliers worldwide assure us of a constant source for raw material at competitive prices, guaranteeing that we pass along those advantages to you.

What's more, by providing a unique combination of personal service and custom-blending expertise, Strahl & Pitsch enjoys long-term relationships with many clients. We work closely with our customers to formulate new blends for new applications according to their individual requirements, all of this being accomplished with our state-of-the art facility, utilizing innovative technology and raw materials gathered from select resources all over the world.

## RECOGNIZED DEPENDABILITY

No wonder we're the only natural wax company enjoying original membership in The Personal Care Products Council (PCPC) formally CTFA. Many of our waxes are generally recognized as safe (GRAS) within the code of Federal Regulations, are food-grade, capable of coming in contact with food items or packaged goods. Our commitment to excellence assures our customers that only the finest and most constant quality raw materials are used to produce our finished waxes, earning us certified supplier status worldwide at many of our multinational clients. You can depend on Strahl & Pitsch waxes to perform batch after batch.



On March 22, 2007 Dilco Refining became a division of Strahl & Pitsch Inc.



Strahl & Pitsch, P.O. Box 1098, 230 Great East Neck Rd., West Babylon, NY 11704, U.S.A.  
Phone: 631.587.9000 Fax: 631.587.9120 [www.spwax.com](http://www.spwax.com)

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## Beeswax

Strahl & Pitsch Inc. is the leading refiner of Beeswax in the United States.

Four thousand years ago in Egypt, the honey bee was regarded as a symbol of royalty. The honey bee, *Apis mellifera*, secretes Beeswax in order to build up a hexagonal cell in which honey is stored. Wax first secreted by the bee is a transparent colorless liquid, which turns into a semi-solid substance on contact with the atmosphere. Beeswax varies in color from yellow through brown to black, and it is believed that the pollen carried by the bee affects the coloration. Local flora on which the bee feeds is responsible for this variation, and pollination of agricultural crops is essential for a food supply.

Strahl & Pitsch produces White and Yellow Grades of Beeswax. Specialty Beeswaxes are available (from specific geographical locations), along with Beeswax blended with other natural and mineral waxes.

We also manufacture Synthetic and Substitute Beeswaxes. These customized wax compounds mirror the properties of genuine Beeswax, providing cost savings in applications where genuine Beeswax is not required.

### Forms Available:

Beeswax is offered in slabs, cakes and pastilles (pellets).

**Typical Applications for Beeswax Include:** Color Cosmetics, Lip Care, Mascara, Eye Makeup, Hair Wax, Creams, Lotions, Pharmaceuticals, Ointments, Tablet Coatings, Confectionary Glazes, Candles.

**Compatibility:** Beeswax is compatible with most vegetable and mineral waxes and a large variety of natural and synthetic resins.



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# STRAHL & PITSCHE DATA SHEETS: Beeswax

Beeswax - Cosmetic / Pharmaceutical Grade						
S&P Number	Melting Point	Acid Value	Saponification Value	Ester Value	Saponification Cloud Test	Color
6P <sup>1,2</sup>	62° C - 65° C	17-24	89-103	72-79	65° C Max.	Yellow
420 ORGANIC	61° C - 65° C	5-24	80-136	75-112	N/A	Yellow
422P	62° C - 65° C	17-24	89-103	72-79	65° C Max.	Off White
DR-100 <sup>1,2</sup>	62° C - 65° C	17-24	89-103	72-79	65° C Max.	Yellow
DR-101 <sup>1,2</sup>	62° C - 65° C	17-24	89-103	72-79	65° C Max.	Off White
425P	61° C - 65° C	17-24	87-104	70-80	N/A	Off White
425YP	61° C - 65° C	17-24	87-104	70-80	N/A	Yellow

1: ECOCERT APPROVED / 2: NF

Beeswax - General Applications						
S&P Number	Melting Point	Acid Value	Saponification Value	Ester Value	Saponification Cloud Test	Color
44P	60° C - 65° C	17-24	N/A	72-79	65° C Max.	Off White
45P	60° C - 65° C	17-24	N/A	72-79	65° C Max.	Yellow
139W	60° C - 65° C	17-24	89-103	N/A	N/A	Off White
139Y	60° C - 65° C	17-24	89-103	N/A	N/A	Yellow

EPA - Toxic Substances Control Act - Listed  
 FDA approved under 21 CFR 184.1973—GRAS

CAS NUMBER Yellow Beeswax 8006-40-4, White Beeswax 8012-89-3; EINECS #232-383-7; EU/INCI:Cera Flava (Yellow); EU/INCI: Cera Alba (white)

ISO-Beeswax				
S&P Number	Melting Point	Acid Value	Saponification Value	Color
154P	60° C - 65° C	17-24	89-103	Yellow

Beeswax - Synthetic							
S&P Number	Melting Point	Acid Value	Saponification Value	Ester Value	Penetration	Iodine Value	Color
58	60° C - 68° C	17-24	89-103	72-79	11-19	N/A	White
755P	74° C - 78° C	19.3-24	N/A	69-77		N/A	Off White
772P	62° C - 65° C	17-24	89-103	N/A	8-14	N/A	Off White
DR-234/B	62° C - 70° C	20-26	147-157	N/A	N/A	NMT 8	Pale Cream

Personal Care Council. CAS NUMBER 71243-51-1. INCI Name: Synthetic Beeswax. EINECS # 275-286-5.

EPA - Toxic Substances Control Act - Listed

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## Carnauba Wax

Carnauba Wax is obtained from the leaves of the palm tree known as *Copernicia cerifera*, which is also referred to as the "Tree of Life". This slow-growing Carnauba palm flourishes in the northeastern regions of Brazil, reaching an average height of 25-35 feet. It proliferates naturally along riverbanks, streams and damp lowlands.

The tree exudes a wax through the petioles of its fan-shaped leaves, preventing dehydration in the equatorial climate.

The cutting of the leaves and sprouts takes place during the dry months of September through February. Workers use knives on long poles to trim the leaves from mature trees. The cut leaves are sun-dried and mechanically thrashed to remove the crude wax. This crude wax, in its powder form, is transported from the countryside and sold to shippers for export.

With a maximum cutting of twenty leaves per year from a tree, the average yield of wax for each tree is about one kilo per cutting. The majority of tree harvesting takes place in the Brazilian States of Ceara and Piaui. The color and quality of the wax are governed by the age of the leaves and care used in processing of this hard, brittle, lustrous wax.

### Grades Available: Carnauba Wax

No. 1 Yellow (Type 1)  
NC #3 Light (Type 3)  
NC#3 Dark (Type 4-Filtered)

**Typical Applications for Carnauba Wax Include:** Color Cosmetics, Lip Care, Mascara, Eye Makeup, Pharmaceuticals, Ointments, Tablet Coatings, Confectionary Glazes, Investment Casting, Polishes, , Inks and Thermal Transfer Ribbons, Fruit Coatings, Candles.

**Compatibility:** Carnauba Wax is compatible with most vegetable and mineral waxes and a large variety of natural and synthetic resins.



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# STRAHL & PITSCHE DATA SHEETS: Carnauba Wax

Carnauba Wax						
S&P Number	Melting Point	Flash Point Minimum	Acid Value	Saponification Value	Paraffinic Hydrocarbons	Color
8 Flake	82.5° C - 86° C	299° C	4-10	78-88		Brown
8 Powder	82.5° C - 90° C	299° C	4-10	78-88		Brown
63 Flake <sup>1,2</sup>	80° C - 86° C	310° C	2-7	78-95	2% Max	Yellow
63 ORG <sup>2</sup>	80° C - 86° C		2-7	78-95		Yellow
63 Powder <sup>2,3</sup>	80° C - 86° C	310° C	2-7	78-95	2% Max	Yellow
63 XFPowder <sup>2,4</sup>	80° C - 86° C	310° C	2-7	78-95	2% Max	Yellow
200 Flake	80° C - 86° C	299° C	4-11	78-95		Tan
200 Powder	80° C - 86° C	299° C	4-11	78-95		Tan
200 XFPowder	80° C - 86° C	299° C	4-11	78-95		Tan

1: ECOCERT APPROVED / 2: NF / 3: 75% Minimum passing through at 120 Mesh / 4: 98% Minimum passing through at 120 Mesh

Carnauba Wax - Substitute					
S&P Number	Melting Point	Penetration	Acid Value	Saponification Value	Color
263P	75° C - 86° C	3-8	2-7	76-95	Pale-Yellow
64	75° C - 80° C	2-10	6-12	40-50	Yellow

EPA - Toxic Substances Control Act - Chemical Substance Inventory. Substance Name Index - CARNAUBA WAX. CAS Number 8015-86-9  
 FDA approved under 21CFR 184.1978, 175.320  
 CAS Number: 8015-86-9  
 INCI Name: Carnauba (*Copernicia Cerifera*) Wax  
 EU/INCI Copernicia Cerifera (*Carnauba*) Wax  
 EINECS #232-399-4

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## Candelilla Wax

The Candelilla Plant (*Euphorbia antisyphilitica* and *Pedilanthus pavonis*) grows in Northeastern Mexico in the wilds of the north central plains and foothills of the Chihuahua Desert, a semi-arid area of more than 100,000 square kilometers.

The production of Candelilla Wax is confined to areas where rugged climatic and topographical conditions combine to produce the highest wax-yielding varieties. Plants growing in the hottest and driest areas produce a scale-like covering on the plant which, after processing, yields a hard vegetable wax of superior quality.

Strahl & Pitsch is the world's largest refiner of Crude Candelilla Wax. We maintain considerable inventories of this unique, natural wax and manufacture a variety of Candelilla Waxes, ranging from refined to customer-defined specialty blends and substitutes.

### Forms Available:

Crude lumps; refined lumps, flakes, powder and granules

**Typical Applications for Candelilla Wax Include:** Color Cosmetics, Lip Care, Mascara, Eye Makeup, Hair Wax, Pharmaceuticals, Tablet Coatings, Polishes, Precision Casting, Adhesives, Chewing Gum Base.

**Compatibility:** Candelilla Wax is compatible with most vegetable and mineral waxes and a large variety of natural and synthetic resins.



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# STRAHL & PITSCHE DATA SHEETS: Candelilla Wax

<b>Candelilla Wax</b>				
S&P Number	Melting Point	Acid Value	Saponification Value	Color
75 Powder FCC <sup>1,2,3</sup>	68.5° C - 72.5° C	12-22	43-65	Brown
75 Flake <sup>1,2</sup>	68.5° C - 72.5° C	12-22	43-65	Yellow
99 Flake	68.5° C - 72.5° C	12-22	43-65	Yellow
DR-405 Granular	68.5° C - 72.5° C	12-22	50-65	Yellow
DR-409 Granular	68.5° C - 72.5° C	12-22	43-65	Yellow

1: ECOCERT APPROVED / 2: NF / 3: 75% Minimum passing through at 120 Mesh

<b>Prime Quality Crude</b>				
S&P Number	Melting Point	Acid Value	Saponification Value	Paraffinic Hydrocarbons
78	68.5° C - 72.5° C	12-22	43-65	45% MAX

EPA - Toxic Substances Control Act - Chemical Substance Inventory. Substance Name Index - CANDELILLA WAX CAS NUMBER 8006-44-8  
 FDA approved under 21 CFR, 175.105, 175.320, 176.180, 184.1976  
 Complies with the requirements of the Food Chemicals Codex and the European Food Law

Personal Care Council - Cosmetic Ingredient Dictionary

EINICS #232-347-0

CAS NUMBER 8006-44-8

CTFA/INCI Name: *Euphorbia Cerifera* (Candelilla) Wax –EU/INCI:Candelilla cera

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<b>Candelilla Wax - Substitute</b>				
S&P Number	Melting Point	Acid Value	Saponification Value	Color
DR-415	73° C-78° C	12-22	50-65	Light Yellow



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## Ceresine & Ozokerite Wax

Ceresine and Ozokerite Waxes are predominantly complex hydrocarbons formulated into specialty waxes, custom blended to the customer's needs.

With decades of formulation experience meeting the needs of diverse applications, we've developed a full range of Ceresine and Ozokerite Waxes to meet your requirements. These waxes are engineered with emphasis on their physical characteristics and end-use functionality.

Consistent from batch to batch, our focus is on your critical needs. Melting point, hardness, viscosity, color, gel strength and plasticity are considered.

Both wax types have a wide range of applications, as detailed below, with Ceresine Waxes offered in melt ranges between 55° and 80° C and Ozokerite Waxes typically offering higher melt ranges of between 60° and 95° C. Each of the waxes in this group is non-hazardous.

### Forms Available:

Both specialty waxes are available in slabs or pastilles.

**Typical Applications for these Specialty Waxes Include:** Cosmetics, Creams, Pharmaceuticals, Pomades, Salves/Ointments, Coatings, Lubricants, Waterproofing, Adhesives, Polishes, and Varnishes.

**Compatibility:** Ceresine Waxes and Ozokerite Waxes are compatible with most vegetable and mineral waxes, as well as vegetable oils, mineral oils and petrolatums.



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# STRAHL & PITSCHE DATA SHEETS: Ceresine and Microcrystalline

White Ceresine Wax		
S&P Number	Melting Point	Penetration ASTM D-132
248	58.3° C - 61.7 ° C	7-13
251	60.0° C - 65.6 ° C	8-18
252P	53.9° C - 57.2 ° C	10-15
254P	62.2° C - 67.8 ° C	9-15
272	54.4° C - 57.8 ° C	12-18
301	65.6° C - 71.1° C	9-15
319	71.1° C - 74.4° C	8-14
931	54.4° C - 57.2° C	10-15
1022-C	62.8° C - 65.6° C	8-13
2931*	68.3° C - 76.7° C	6-15

White Ozokerite Wax						
S&P Number	Melting Point	Penetration ASTM D-132	Gel Strength	S&P Number	Melting Point	Penetration ASTM D-132
271P	84.4° C - 95.6° C	8-14	65-100	2020 <sup>1</sup>	73.9° C - 79.4° C	10-20
273P	87.8° C - 96.1° C	4-10	65-85	2021 <sup>1</sup>	75.0° C - 80.6° C	6-15
996P	73.9° C - 78.3° C	6-12	80-110	2026 <sup>1</sup>	79.4° C - 85.0° C	6-12
986	68.9° C - 72.2° C	9-15	80-110	2101 <sup>1</sup>	76.1° C - 81.7° C	10-20
1016P	71.1° C - 74.4° C	9-15	120 Max.	2173 <sup>1</sup>	62.7° C - 68.3° C	10-16
1190	79.4° C - 85.0° C	8-14	65-95	2190 <sup>1</sup>	79.4° C - 85.0° C	6-14
1020P	73.3° C - 76.1° C	8-13	150 Max.	2248 <sup>1</sup>	64.4° C - 67.8° C	7-13
1021P	74.4° C - 77.2° C	8-13	160 Max.	2275 <sup>1</sup>	68.3° C - 73.9° C	5-15
1025P	68.3° C - 71.1° C	10-15	112-120			
1026P	76.1° C - 78.9° C	8-14	65-95			
1028P	72.8° C - 76.1° C	7-13	100-130			

<sup>1</sup> COLIPA COMPLIANT



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## Paraffin & Microcrystalline Wax

Strahl & Pitsch offers an extensive range of the finest food-grade Paraffin and Microcrystalline Waxes from domestic and international sources.

Paraffin Waxes come from the dewaxing of paraffin distillates; Microcrystalline Waxes are derived from residuum.

Paraffin Waxes have relatively large, brittle crystals (Macrocrystalline) and generally have little affinity for oil.

Microcrystalline Waxes have very minute crystals (Micro-crystals) and are flexible, with a greater affinity for oil, which is held tightly in the crystalline lattice and does not migrate to the surface.

Strahl & Pitsch maintains sizable inventories of both of these multi-purpose waxes, providing a consistent supply of known quality waxes in what is otherwise an ever-changing world market.

### Forms Available:

Both specialty waxes are available in slabs and pastilles.

**Typical Applications for Paraffin and Microcrystalline Waxes Include:** Cosmetics, Pharmaceuticals, Coatings, Hot-Melt Adhesives, Polishes, and Candles

**Compatibility:** Paraffin and Microcrystalline Waxes are compatible with most vegetable and mineral waxes and a large variety of natural and synthetic resins.



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# STRAHL & PITSCHE DATA SHEETS: Paraffin and Ozokerite

Fully Refined Paraffin Wax			
S&P Number	Melting Point	Penetration ASTM D-132	Color
173 <sup>1</sup>	58.9° C - 62.2° C	10-16	White
192	51.1° C - 54.4° C	9-18	White
206 <sup>2</sup>	50.0° C - 52.8° C	18-43	White
227B	53.3° C - 57.2° C	11-16	White
434	65.6° C - 68.9° C	10-16	White
674	68.9° C - 72.8° C	10-15	White
1275	52.8° C - 57.2° C	11-16	

<sup>1</sup> NF Grade Paraffin Available

<sup>2</sup> SCALE WAX is a semi refined Paraffin Wax

FDA approved under 21 CFR 172.886, 175.105, 175.250, 175.300, 178.3710.

Microcrystalline Wax			
S&P Number	Melting Point	Penetration ASTM D-132	Color
16 <sup>1</sup>	79.4° C - 86.7° C	15-22	Yellow
16W <sup>1</sup>	79.4° C - 86.7° C	15-22	White
18 <sup>1</sup>	73.9° C - 79.4° C	55-75	White
19 <sup>1</sup>	76.7° C - 82.2° C	55-75	White
26 <sup>1</sup>	76.6° C - 82.3° C	25-35	Yellow
60 <sup>1</sup>	79.4° C - 85.0° C	16-22	Yellow
88 <sup>1</sup>	87.8° C - 96.1° C	5-10	White
97 <sup>1</sup>	70.0° C - 74.4° C	25-35	Off-White
617 <sup>1</sup>	88.3° C - 92.8° C	8-14	Yellow
623 <sup>1</sup>	87.8° C - 96.1° C	5-10	Off-White to Amber

<sup>1</sup> COLIPA COMPLIANT

FDA approved under 21 CFR 172.886, 178.3710



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## Other Waxes and Blends

### Innovative Custom Blending

Strahl & Pitsch has the capability to satisfy customers' needs with custom-blended formulations. We can assist in developing products that conform to specific physical properties, including melting point, penetration, viscosity and gel strength requirements.

### Specialty Waxes

Natural Japan Wax  
Japan Wax Substitutes  
Beeswax Substitutes  
Rice Bran Wax  
Petroleum Blends

Vegetable Oil Butters  
Olive, Sunflower, Avocado  
Montan Wax  
Castor Wax  
Polyethylene Waxes

Fischer-Tropsch Waxes  
Synthetic Waxes  
Candle Blends Petroleum & Natural  
Wick Waxes - Petroleum & Natural

### Esters

Three emollient esters have been developed with cosmetic and personal care applications in mind. Non-GMO vegetable oil derived, they have largely saturated chain groups and are high quality and attractive film formers. An extensive product formulary has been developed and is available. These esters are INCI and EINECS registered and authorized for use in Japan.

### Natural Wax Jelly

As natural, non-petroleum alternatives to petrolatum products, Strahl & Pitsch's Natural Wax Jellies have been developed to meet the physical and functional characteristics of petrolatum products. Formulated from renewable resources, they are blended to correspond with the melt point and consistency ranges as established for petrolatums; they are ideal for lip balms or any applications where petrolatum is being considered.

### Vegetable Oil Butters

Combining vegetable oils and natural waxes for use in personal care product development. Designed to combine all the desirable and functional characteristics of vegetable oils in a stable base of natural waxes. Applications include Lip Balms, Lip Stick, Hair Pomade, Creams and Lotions.

### Fragrances, Flavors and Botanical Extracts

Strahl & Pitsch is the exclusive North American agent and distributor for Fragrance Oils (Intl) Ltd. of Manchester, England. Their extensive fragrance line includes products for personal care, household, and candle categories. Also available are a considerable number of plant and fruit extracts which offer additional functional benefits. Fragrance Oils' product development through Strahl & Pitsch is available to all manufacturers in North America. Fragrance Oils' experience with multi-national and well as multi-cultural customers throughout the world adds a new dimension to their products and presentations.



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Note 1 –These distributors are in compliance with the current REACH regulation.  
Cornelius Group and ROSSOW are Strahl & Pitsch's Official Downstream  
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