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# PRODUCTS

## KAHLWAX

It all started a couple of years after the Second World War in Cologne. Mr. Eduard Huntenburg, owner of a food trading company in Hamburg, was visiting his sister and her husband in Cologne. The two gentlemen went out one night and joined a group of card players in a shady pub. They had probably one or two drinks and in the end Eduard Huntenburg won some coupons for steel. It was hard to figure out what to do with them. As he was a clever man with good instincts he decided to produce cans from the steel and fill them with shoe polish. He got in touch with Mr. Guido Kahl, a trader with contacts in the carnauba wax business in Brazil. The two businessmen decided to cooperate and found a company. They used a cellar of a bombed-out school located in Hamburg Rothenburgsort close to the harbor. They prepared the polish in the boiler and filled it afterwards in cans. Of course it was a success!

We still have this entrepreneurial spirit and flexibility, always eager to find good use for our high quality waxes!



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*Kahlwax products are unique due to a specific manufacturing procedure which filters & purifies selected crude materials resulting in highly sophisticated, premium waxes. Discover our product line.*

### QUESTIONS?

*Send me an e-mail:  
dr.cera@kahlwax.com*

## ICONS



MADE OF NATURAL RAW MATERIAL



MADE OF ORGANIC RAW MATERIAL



FREE OF ANIMAL-DERIVED RAW MATERIAL



COMPLIES WITH EUROPEAN PHARMACOPOEIA



CHINA COMPLIANT



KOSHER CERTIFIED



HALAL CERTIFIED



SUSTAINABLY HARVESTED



OUR BESTSELLER



## PORTFOLIO

### IN TUNE WITH NATURE

The wax industry is inevitably linked with nature, as natural waxes are produced by bioorganisms to protect themselves against mechanical stress, loss of moisture, parasites, and UV radiation. Natural waxes are synthesized bio-chemically by numerous plants and animals. Especially in warm climates, plants secrete waxes as a way to control evaporation and hydration, essentially to protect themselves against dehydration.

But even synthetic microwaxes have their origin in nature: they are of fossil origin and mineral oil-derived. And "green" ingredients are in high demand with the consumer – especially when it comes to cosmetics. Some people say you should not put anything on your skin that you would not want to eat. Most waxes are approved for use in food or for food contact, so they are truly safe, even for very frequent oral or topical use.

## SUSTAINABILITY

Sustainability comes naturally to KahlWax. Most natural waxes already have huge sustainability potential, as they are made from regrowing sources and are obtained as side-products of other industries. A value chain is created as the crude waxes would be disposed of if they were not used as raw material for our products. As for the other natural waxes, the remaining plant parts or fruits are used for compost and fertilization.



## KAHL SPECIALTY WAXES

In the past, many people perceived formulations with waxes as heavy, dull, sometimes sticky, and too occlusive. Therefore, in skin care, waxes were primarily used in cold and barrier creams and other rich W/O emulsions. Constant innovation and optimization in order to obtain more refined and, for the cosmetic industry, better and more widely applicable and acceptable natural waxes have unlocked many doors for the application of natural waxes in skin care and color cosmetics, however. It is now acknowledged that waxes have a much bigger potential! They are very useful because of their virtually innumerable advantageous properties. Besides providing stability, enhancing viscosity and consistency, they form flexible, protective layers, and many of them have a superb, light, soft, and buttery skin feel.



### 6237 | RAPESEED WAX

Very soft, white, buttery wax with a low peroxide value. Has a creamy consistency and is an ideal alternative to butters.

INCI (EU/USA): Hydrogenated Rapeseed Oil | MP: 36–39 °C



### 6290 | BERRY WAX

Low melting soft wax with velvet, powdery skin feel. Outstanding pay-off enhancer for stick and pencil preparations. Gives O/W emulsions a moussy, whipped cream type of texture.

INCI (EU): Rhus Verniciflua Peel Cera/Rhus Succedanea Fruit Cera

INCI (USA): Rhus Verniciflua Peel Wax/Rhus Succedanea Fruit Wax | MP: 48–54 °C



### 6279L | MYRICA FRUIT WAX

L-quality\*, hard wax with low melting point. Excellent performance as natural hair conditioning agent. Reduces combing force significantly, provides medium hold used in hair styling products. Allows remoldable styles without flaking. Gives luxurious, rich skin feel and prolongs playtime of formulations. Complies with all provisions of Nagoya protocol of access and benefit sharing.

INCI (EU): Myrica Cerifera Fruit Wax | INCI (USA): Myrica Cerifera (Bayberry) Fruit Wax | MP: 45–55 °C



### 2811 | RICE BRAN WAX

L-quality\*, approved as direct and indirect food additive by the FDA (USA) CRF 21 § 172.615 and CRF 21 § 178.3860. Matte wax due to high crystallinity. Provides a soft and creamy texture in emulsions and oleogels.

INCI (EU): Oryza Sativa Bran Cera | INCI (USA): Oryza Sativa (Rice) Bran Wax | MP: 79–85 °C



### 6240 | VEGETABLE WAX

Soft wax with low melting point, GMO-free quality.

INCI (EU/USA): Hydrogenated Vegetable Oil | MP: 37–44 °C

\* Due to a particular production procedure, all impurities are removed. The wax shows a clear melt and contains <5 mval/kg peroxides.



### 6607L | SUNFLOWER SEED WAX

Very light-colored L-quality\*, high oil binding capacity. Reduces stickiness of formulations and creates glossy surfaces.

INCI (EU): Helianthus Annuus Seed Cera, Ascorbyl Palmitate, Tocopherol

INCI (USA): Helianthus Annuus (Sunflower) Seed Wax, Ascorbyl Palmitate, Tocopherol | MP: 74–80 °C



### 6607H | SUNFLOWER HYDROWAX

Hydrolyzed sunflower seed wax being much more hydrophilic and polar than the regular wax. Outstanding co-emulsifier for O/W and W/O emulsions with a moderate HLB value.

INCI (EU/USA): Hydrolyzed Sunflower Seed Wax | MP: 65–71 °C



### 7302L | SHELLAC WAX

L-quality\* with outstanding volumizing performance in mascaras. Very hydrophobic and adhesive wax supporting transfer resistance and film forming.

INCI (EU): Shellac Cera | INCI (USA): Shellac Wax | MP: 78–84 °C

### 7686OE | HAIR WAX BLEND



Emulsifier-free base for hair styling waxes. Provides strong hold.

INCI (EU): Cetyl Palmitate, Cera Alba, Cera Microcristallina | INCI (USA): Cetyl Palmitate, Beeswax, Microcrystalline Wax

MP: 78–84 °C

### 8089 | WEB EFFECT WAX



Creamy white, waxy paste. Compound for elastic hair styling creams for moldable hair style and natural hold. Creates sticky strings in combination with PVP. Suitable for emulsified or anhydrous systems.

INCI (EU): Cera Alba, Ceteareth-25, Oryza Sativa Bran Cera | INCI (USA): Beeswax, Ceteareth-25, Oryza Sativa (Rice) Bran Wax

MP: 60–66 °C



### 6421 | SUPERSOFT ESTER

Animal-free lanolin substitute with water absorption capacity of 200 %. Suitable for emulsions and anhydrous systems.

INCI (EU/USA): Bis-Diglyceryl Polyacyladipate-2 | MP: 32–37 °C



### 6422 | VEGGIESOFT COMPLEX

All-natural and vegan alternative to lanolin wax with the same water binding capacity of min. 200 %. Shows similar influence on skin elasticity as lanolin.

INCI (EU): Rhus Verniciflua Peel Cera/Rhus Succedanea Fruit Cera, Simmondsia Chinensis Seed Oil, Cetearyl Alcohol, Myristyl Alcohol, Caprylic/Capric Triglyceride, Copernicia Cerifera Cera, Tocopherol

INCI (USA): Rhus Verniciflua Peel Wax/Rhus Succedanea Fruit Wax, Simmondsia Chinensis (Jojoba) Seed Oil, Cetearyl Alcohol, Myristyl Alcohol, Caprylic/Capric Triglyceride, Copernicia Cerifera (Carnauba) Wax, Tocopherol

MP: 40–46 °C



### 5109 | SUNFLOWER + CARNAUBA EMULSIFYING COMPLEX

Pale yellow, waxy pellets. Contains PEG-free O/W emulsifier and can be added to the water phase at 85 °C. To function as the only emulsifier the water phase needs to be thickened by a carbomer or other polymer. Dry and silky skin feel, reduces stickiness of formulations. Use level 3–5 % as co-emulsifier, as sole emulsifier 6–10 %.

INCI (EU): Copernicia Cerifera Cera, Helianthus Annuus Seed Cera, Polyglyceryl-10 Oleate

INCI (USA): Copernicia Cerifera (Carnauba) Wax, Helianthus Annuus (Sunflower) Seed Wax, Polyglyceryl-10 Oleate

MP: 78–84 °C



### 5115 | RICE + MYRICA EMULSIFYING COMPLEX

Pale yellow, waxy pellets. Combines the benefits of rice bran and myrica wax and has been designed especially for use in O/W emulsions. Enriches skin feel of formulations. Contains PEG-free O/W emulsifier and can be added to the water phase at 85 °C. Use level 3–5 % as co-emulsifier, as sole emulsifier 6–10 %.

INCI (EU): Oryza Sativa Bran Cera, Myrica Cerifera Fruit Wax, Cetearyl Glucoside, Cetearyl Alcohol

INCI (USA): Oryza Sativa (Rice) Bran Wax, Myrica Cerifera (Bayberry) Fruit Wax, Cetearyl Glucoside, Cetearyl Alcohol

MP: 73–79 °C

\* Due to a particular production procedure, all impurities are removed. The wax shows a clear melt and contains <5 mval/kg peroxides.

## KAHL BEADS

KahlBeads are from sustainable sources and are all truly natural products. They can be considered readily biodegradable and are non-toxic for humans, animals, and the entire environment. No bio-accumulation is to be expected, therefore they are harmless for use even in rinse-off products.

KahlBeads are spherical particles made of pure, uncolored wax. Due to their round shape KahlBeads are the ideal peeling particles even for sensitive skin. Thanks to their high melting point they are very stable especially in emulsified systems. KahlBeads show the same exfoliating activity as other natural particles which have sharp edges or are known for being easily contaminated. Most grades are certified for natural cosmetics.

KahlBeads should not be added at temperatures >50 °C in order to avoid melting.

Combine KahlBeads with other exfoliating particles in different shapes and colors to create exciting effects. Strawberry seeds, sugar crystals, and sand grains give the mix a coarse appearance.



### 2178P | CASTOR WAX BEADS

Perfectly round peeling beads. Fine white quality, particle size distribution  $\varnothing$  500  $\mu\text{m}$ . Need to be used < 45 °C.

INCI (EU/USA): Hydrogenated Castor Oil | MP: 83–89 °C



### 2811P | RICE BRAN WAX BEADS

Natural peeling beads with temperature stability up to 55 °C. Does not irritate skin even when used daily. Particle size distribution  $\varnothing$  500  $\mu\text{m}$ .

INCI (EU): Oryza Sativa Bran Cera | INCI (USA): Oryza Sativa (Rice) Bran Wax | MP: 79–85 °C



### 7625P | CARNAUBA + BEESWAX BEADS

Very mild, but efficient exfoliating agent. Particle size distribution  $\varnothing$  250–500  $\mu\text{m}$ . Available as organic grade.

INCI (EU): Cera Alba, Copernicia Cerifera Cera | INCI (USA): Beeswax, Copernicia Cerifera (Carnauba) Wax  
MP: 78–84 °C

# KAHL POWDERS

KahlPowders are made of natural and bio-degradable raw materials. They are manufactured by spray-cooling or grinding pure natural waxes. Depending on their particle size they are natural mattifying or deep-cleansing agents. KahlPowders are very mild, but show an outstanding performance.

Most KahlPowders are certified for natural cosmetics and all of them are China compliant.



## 2442P100N | CARNAUBA WAX POWDER

Wax powder with particle size distribution < 100 µm. \*\*

INCI (EU): Copernicia Cerifera Cera | INCI (USA): Copernicia Cerifera (Carnauba) Wax | MP: 82–86 °C



## 2442P5 | CARNAUBA WAX POWDER

Natural soft-focus agent. Particle size distribution < 15 µm. \*\*

INCI (EU): Copernicia Cerifera Cera | INCI (USA): Copernicia Cerifera (Carnauba) Wax | MP: 82–86 °C



## 2811P7 | RICE POWDER

Natural mattifying, soft-focus agent made from pure rice bran wax. Thanks to its oil binding capacity it absorbs excessive sebum and reduces skin shine. Particle size distribution < 15 µm. \*\*

INCI (EU): Oryza Sativa Bran Cera | INCI (USA): Oryza Sativa (Rice) Bran Wax | MP: 79–85 °C

\*\* Complies with the GRAS status of the FDA (USA) as well as EC regulation No. 231/2012 for food additives.



## KAHLJELLIES

KahlJellies are truly natural alternatives to conventional petroleum jelly. They can be used in all kinds of color cosmetics, skin and hair care applications. KahlJellies are very useful for solving problems such as blooming or syneresis (oil bleeding).

KahlJellies have a super soft, silky lip and skin feel, and improve pay-off. They are the perfect compromise between occlusivity and permeability, easy to emulsify, and compatible with polar emollients.

KahlJellies are homogeneous and temperature-stable, certified for natural/organic cosmetics, and China compliant.



### 7036PLUS | VEGO JELLY

Vegan and natural petrolatum alternative based on berry wax. Unique blend of natural waxes and oils with super soft, silky lip and skin feel, and high oil binding capacity. Has a positive influence on TEWL.

INCI (EU): Ricinus Communis Seed Oil, Rhus Verniciflua Peel Cera/Rhus Succedanea Fruit Cera, Ascorbyl Palmitate, Tocopherol

INCI (USA): Ricinus Communis (Castor) Seed Oil, Rhus Verniciflua Peel Wax/Rhus Succedanea Fruit Wax, Ascorbyl Palmitate, Tocopherol

MP: 42–48 °C



### 7235 | NATURAL JELLY

Natural petrolatum alternative with beeswax and carnauba wax. Easy to emulsify and compatible with polar emollients. Forms a permeable, protective film on skin, and reduces TEWL.

INCI (EU): Ricinus Communis Seed Oil, Cera Alba, Copernicia Cerifera Cera, Ascorbyl Palmitate, Tocopherol

INCI (USA): Ricinus Communis (Castor) Seed Oil, Beeswax, Copernicia Cerifera (Carnauba) Wax, Ascorbyl Palmitate, Tocopherol

MP: 55–62 °C



### 7236 | ORGANIC JELLY

Opaque thixotropic jelly. Organic certified petrolatum alternative with beeswax and carnauba wax. Forms a permeable, protective film on skin, and reduces TEWL.

INCI (EU): Ricinus Communis Seed Oil, Cera Alba, Copernicia Cerifera Cera, Ascorbyl Palmitate, Tocopherol

INCI (USA): Ricinus Communis (Castor) Seed Oil, Beeswax, Copernicia Cerifera (Carnauba) Wax, Ascorbyl Palmitate, Tocopherol

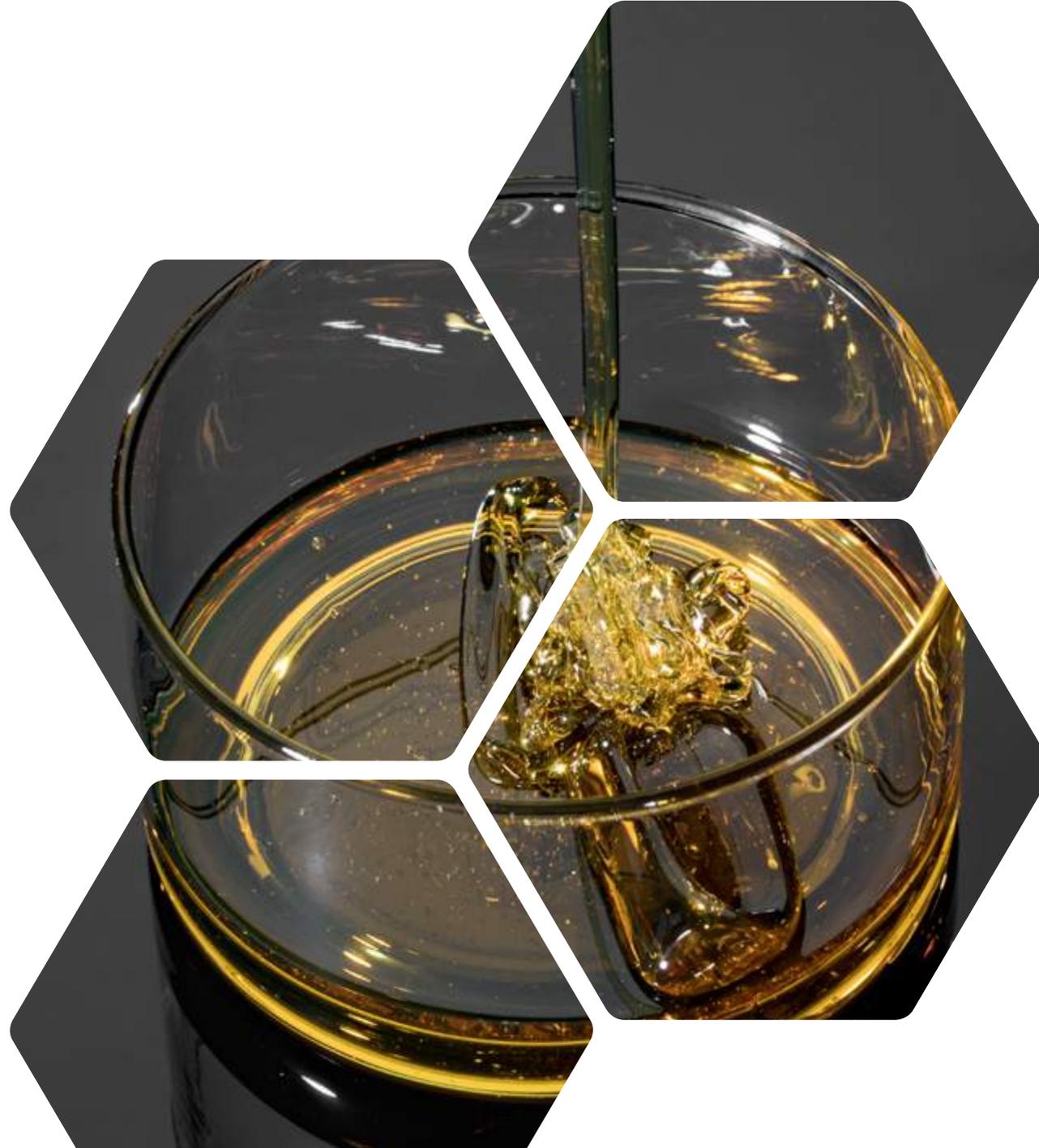
MP: 55–62 °C



# KAHL RESINS

KahlResins are the ideal gloss enhancer for color cosmetics and hair styling products. They are natural polybutene alternatives boosting the transfer resistance of any kind of formulation, and reduce spreading. Used in lipsticks they improve adhesion and pay-off. Depending on the KahlResin grade they are crystal clear/opaque, golden yellow, syrup-like liquids, forming a flexible film. As the film does not dry on skin/hair, almost like honey, they cannot cause flaking.

The Araucaria resins are tasteless, and the blend with organic sunflower seed oil even has food quality (E445).



## 5720 | ARAUCARIA RESIN + SUNFLOWER OIL

Natural film former based on pinewood resin (*Genus Araucaria*) in food quality (E445). Enhances gloss and transfer resistance.

INCI (EU): Glyceryl Rosinate, Helianthus Annuus Seed Oil, Tocopherol

INCI (USA): Glyceryl Rosinate, Helianthus Annuus (Sunflower) Seed Oil, Tocopherol | RI: 1.4979



## 5723 | ARAUCARIA RESIN + OCTYLDODECANOL

Standard version for improved transfer resistance and gloss.

INCI (EU/USA): Glyceryl Rosinate, Octyldodecanol | RI: 1.4862



## 5725 | ARAUCARIA RESIN + CASTOR OIL

Economic version with highest refractive index. Enhances reduction of oil spreading thanks to the high viscosity of castor oil.

INCI (EU): Glyceryl Rosinate, Ricinus Communis Seed Oil, Ascorbyl Palmitate, Tocopherol

INCI (USA): Glyceryl Rosinate, Ricinus Communis (Castor) Seed Oil, Ascorbyl Palmitate, Tocopherol | RI: 1.5030



## 6720 | SHOREA ROBUSTA RESIN + SUNFLOWER OIL

Natural, high viscous film former based on sal tree resin (*Shorea Robusta*). Provides transfer resistance and gloss.

INCI (EU): Shorea Robusta Resin, Helianthus Annuus Seed Oil, Tocopherol

INCI (USA): Shorea Robusta Resin, Helianthus Annuus (Sunflower) Seed Oil, Tocopherol | RI: 1.4918



## 6721 | SHOREA ROBUSTA RESIN + BEESWAX

Natural film former with long-lasting effect, especially designed for lipsticks and other hot-filled products. Non-glossy and solid version.

INCI (EU): Shorea Robusta Resin, Cera Alba | INCI (USA): Shorea Robusta Resin, Beeswax | MP: 60–65 °C



## 6723 | SHOREA ROBUSTA RESIN + OCTYLDODECANOL

Natural, high viscous, transparent film former, provides transfer resistance and gloss. Improves product adhesion thanks to its sticky consistency.

INCI (EU/USA): Shorea Robusta Resin, Octyldodecanol | RI: 1.4838

## KAHL BASES

KahlBases are made for your convenience! Depending on the KahlBase type they can be used as sole base for lipstick or lip care formulations or as part of the composition blended with oils, pigments, fillers, and stabilizing additives.

KahlBases are all-in-one solutions for easy production processes and only require melting, blending with other ingredients if desired, and pouring into desired molds. All KahlBase grades create high gloss and have excellent heat resistance.



### 4077 | NATURAL LIPSTICK BASE



Pale colored, complete lipstick base made exclusively of natural and organic ingredients for a glossy, but long-lasting effect. Contains all essential components and requires only the addition of stabilizers such as antioxidants, pigments and, if desired, fillers for a matte appearance.

INCI (EU): Simmondsia Chinensis Seed Oil, Helianthus Annuus Seed Oil, Ricinus Communis Seed Oil, Rhus Verniciflua Peel Cera/Rhus Succedanea Fruit Cera, Cera Alba, Helianthus Annuus Seed Cera, Euphorbia Cerifera Cera, Shorea Robusta Resin, Tocopherol, Ascorbyl Palmitate

INCI (USA): Simmondsia Chinensis (Jojoba) Seed Oil, Helianthus Annuus (Sunflower) Seed Oil, Ricinus Communis (Castor) Seed Oil, Rhus Verniciflua Peel Wax/Rhus Succedanea Fruit Wax, Beeswax, Helianthus Annuus (Sunflower) Seed Wax, Euphorbia Cerifera (Candelilla) Wax, Shorea Robusta Resin, Tocopherol, Ascorbyl Palmitate

MP: 55–65 °C

### 6465 | LIPSTICK BASE



Colorless wax and oil blend for lipsticks with high gloss and excellent heat resistance. Only pigments, fillers, and stabilizing additives need to be added.

INCI (EU): Cera Microcristallina, Paraffinum Liquidum, Hexyldecanol, Hexyldecyl Laurate, Rhus Verniciflua Peel Cera/Rhus Succedanea Fruit Cera, Bis-Diglyceryl Polyacyladipate-2, Cera Alba, Tocopherol

INCI (USA): Ozokerite, Mineral Oil, Hexyldecanol, Hexyldecyl Laurate, Rhus Verniciflua Peel Wax/Rhus Succedanea Fruit Wax, Bis-Diglyceryl Polyacyladipate-2, Beeswax, Tocopherol

MP: 73–79 °C

### 6370 | LIP CARE BASE



Use level is approx. 70%, requires the addition of approx. 30% oils.

INCI (EU): Hexyldecyl Laurate, Hexyldecanol, Cera Microcristallina, Cetearyl Isononanoate, Propylene Glycol Dicaprylate/Dicaprate, Ascorbyl Palmitate

INCI (USA): Hexyldecyl Laurate, Hexyldecanol, Ozokerite, Cetearyl Isononanoate, Propylene Glycol Dicaprylate/Dicaprate, Ascorbyl Palmitate

MP: 65–71 °C

### 7704 | NATURAL LIP CARE BASE



Pale colored complete lip care base containing only natural components. No further ingredients are necessary, but fragrance/fragrance or oil-soluble actives can be added during cooling at 75 °C.

INCI (EU): Helianthus Annuus Seed Oil, Simmondsia Chinensis Seed Oil, Ricinus Communis Seed Oil, Rhus Verniciflua Peel Cera/Rhus Succedanea Fruit Cera, Cera Alba, Helianthus Annuus Seed Cera, Euphorbia Cerifera Cera, Shorea Robusta Resin, Tocopherol, Ascorbyl Palmitate

INCI (USA): Helianthus Annuus (Sunflower) Seed Oil, Simmondsia Chinensis (Jojoba) Seed Oil, Ricinus Communis (Castor) Seed Oil, Rhus Verniciflua Peel Wax/Rhus Succedanea Fruit Wax, Beeswax, Helianthus Annuus (Sunflower) Seed Wax, Euphorbia Cerifera (Candelilla) Wax, Shorea Robusta Resin, Tocopherol, Ascorbyl Palmitate

MP: 55–65 °C

# KAHL BEESWAX GRADES

One bee colony contains 30,000–70,000 bees and produces up to 70–80 kg honey, but only 500 g wax per year! Beeswax is formed by worker bees, which secrete it from eight wax-producing mirror glands on the inner sides of the sternites. To produce their wax, bees must consume about eight times as much honey by mass. This means that for 1 kg beeswax, a bee has to eat 7–9 kg honey! It is estimated that bees collectively fly 530,000 km, roughly six times around the earth, to yield 1 kg of beeswax (150,000 miles/pound). Beeswax is very sustainable as it is a byproduct of the honey industry. Centrifuged honeycombs are reused as crude wax for our beeswax grades. Beekeepers reuse our high quality beeswax for pouring or pressing new honeycombs.

Beeswax is still the best-known and by volume the bestselling natural wax worldwide. Even though it has a quite heavy skin feel, it is still popular in many cosmetic preparations. Beeswax is also frequently used in other industries, such as pharma, food, leather, and wood care. Kahl Beeswax is China compliant and certified for natural cosmetics.



## 8104 | BEESWAX WHITE

Pure, fine white beeswax is obtained from honeycombs of *Apis Mellifera* and is carefully physically bleached.

INCI (EU): Cera Alba | INCI (USA): Beeswax | MP: 61–65 °C



## 8105 | BEESWAX YELLOW

Pure, yellow beeswax in cosmetic quality.

INCI (EU): Cera Alba | INCI (USA): Beeswax | MP: 61–65 °C



## 8108 | BEESWAX PHARMA WHITE

Pure, white beeswax of pharmaceutical quality which is obtained from honeycombs of *Apis Mellifera*. It is carefully physically bleached.\*\*

INCI (EU): Cera Alba | INCI (USA): Beeswax | MP: 61–66 °C



## 8109 | BEESWAX PHARMA YELLOW

Yellow beeswax of pharmaceutical quality which is obtained from honeycombs of *Apis Mellifera*. It is not bleached, but carefully filtrated.\*\*

INCI (EU): Cera Alba | INCI (USA): Beeswax | MP: 61–66 °C



## 8138 | BEESWAX LC ORGANIC

Mildly processed and physically bleached quality of very light color. Refined from crude organic beeswax exclusively sourced from approved and certified beekeepers. Free from any type of impurity.\*\*

INCI (EU): Cera Alba | INCI (USA): Beeswax | MP: 62–65 °C



## 8139 | BEESWAX ORGANIC

Yellowish, non-bleached organic beeswax. Produced by physical cleaning and filtration technology.\*\*

INCI (EU): Cera Alba | INCI (USA): Beeswax | MP: 62–65 °C



## 1540 | BEESWAX SUBSTITUTE WHITE

Very economic alternative to natural, pure, white beeswax. | INCI (EU/USA): Detailed information on request | MP: 61–65 °C



## 1545 | BEESWAX SUBSTITUTE YELLOW

Economic alternative to natural, pure, yellow beeswax. | INCI (EU/USA): Detailed information on request | MP: 61–65 °C



## 8019W | BEESWAX SUBSTITUTE WHITE

Beeswax blend with structuring properties for anhydrous and emulsion based cosmetics. 8019W shows less drag on the skin and can therefore be used at a higher dosage than natural beeswax.

INCI (EU/USA): Detailed information on request | MP: 61–65 °C



## 8070W | BEESWAX SUBSTITUTE WHITE

Version with the characteristics most similar to natural beeswax at a reasonable price level.

INCI (EU/USA): Detailed information on request | MP: 62–65 °C



## 6103 | BEESWAX SUBSTITUTE NON-ANIMAL

Very light-colored beeswax alternative for sticks and emulsions which is completely free of animal-derived raw materials. RSPO certified grade available.

INCI (EU): Cera Microcristallina, Hydrogenated Vegetable Oil, Stearyl Stearate, Stearic Acid

INCI (USA): Ozokerite, Hydrogenated Vegetable Oil, Stearyl Stearate, Stearic Acid | MP: 61–65 °C

\*\* Complies with the GRAS status of the FDA (USA) as well as EC regulation No. 231/2012 for food additives.



## KAHL CANDELILLA WAX GRADES

Candelilla bushes are essentially leafless shrubs whose stems are covered in wax to prevent transpiration. The plants are cut and left in the sun to dry. Afterwards they are boiled out in water and the wax is skimmed off from the surface. Further refining processes result in standard or high quality candelilla wax.

Kahl Candelilla wax is more brittle than beeswax and less hard than carnauba wax. It is a polar and hydrophobic wax, and due to its high resin content very adhesive. Kahl Candelilla wax has a good oil binding capacity and is easy to work with thanks to its moderate melting point. It creates very hard oleogels, whether polar or nonpolar emollients or mixtures are used.

Kahl Candelilla wax provides high surface gloss and is the wax with the highest shrinkage/contraction capacity, which eases demolding from metal molds.

There is no organic certified candelilla wax as the shrub grows wildly and not under controlled conditions.



### 2039 | CANDELILLA WAX

Low odor wax with such properties as oil binding capacity, high gloss, and remarkable hardness.\*\*

INCI (EU): Euphorbia Cerifera Cera | INCI (USA): Euphorbia Cerifera (Candelilla) Wax | MP: 68–73 °C



### 2039L | CANDELILLA WAX

L-quality\* obtained from the wild-growing shrub of the family *Euphorbia Antisyphilitica* native to Mexico. Excellent oil binding capacity, creates high gloss, and remarkable hardness.\*\*

INCI (EU): Euphorbia Cerifera Cera | INCI (USA): Euphorbia Cerifera (Candelilla) Wax | MP: 68–73 °C



### 2039N | CANDELILLA WAX BLEND

Bleached and purified candelilla wax blend with paraffin.

INCI (EU): Euphorbia Cerifera Cera, Paraffin | INCI (USA): Euphorbia Cerifera (Candelilla) Wax, Paraffin | MP: 68–73 °C



### 6702 | NATURAL CANDELILLA WAX SUBSTITUTE

All-natural, animal-free blend of carefully selected, high quality ingredients. Used in mascara it forms flexible layers on lashes and is an excellent volumizer. Improves adhesion of color cosmetic products. Stabilizes stick preparations.

INCI (EU): Helianthus Annuus Seed Cera, Shorea Robusta Resin, Rhus Verniciflua Peel Cera/Rhus Succedanea Fruit Cera, Tocopherol, Ascorbyl Palmitate

INCI (USA): Helianthus Annuus (Sunflower) Seed Wax, Shorea Robusta Resin, Rhus Verniciflua Peel Wax/Rhus Succedanea Fruit Wax, Tocopherol, Ascorbyl Palmitate

MP: 72–78 °C



### 7304 | SYNTHETIC CANDELILLA WAX SUBSTITUTE

Light-colored, paraffin-containing alternative.

INCI (EU): Paraffin, Copernicia Cerifera Cera, Glycol Montanate, Shorea Robusta Resin

INCI (USA): Paraffin, Copernicia Cerifera (Carnauba) Wax, Glycol Montanate, Shorea Robusta Resin | MP: 76–82 °C



\* Due to a particular production procedure, all impurities are removed. The wax shows a clear melt and contains <5 mval/kg peroxides.

\*\* Complies with the GRAS status of the FDA (USA) as well as EC regulation No. 231/2012 for food additives.

# KAHL CARNAUBA WAX GRADES

Kahl Carnauba wax is gathered from the leaves of the palm *Copernicia prunifera*, which is native to and grows only wild in northeastern Brazil. A planted palm needs 20 years to produce enough wax to be harvested. In hot, dry weather the plant secretes wax to protect its leaves from damage. The leaves are collected wild and cut off the tree. Old leaves are harvested in May, resulting in darker colored wax, and young leaves are harvested in November, yielding low colored wax. After drying the leaves in the sun, the wax is removed by beating the withered leaves. The crude wax is then refined by washing with water or extraction and distillation with a solvent.

Depending on the Kahl Carnauba wax grade, it thickens/hardens stick and pencil preparations, anhydrous systems, oleogels, pastes, and W/O emulsions. Kahl Carnauba wax is a very hard, high melting, brittle wax with high crystallinity and outstanding oil binding capacity.

It provides lubricity and generates glossy stick surfaces, and functions as a dispersing aid for effect pigments. Kahl Carnauba wax is certified for natural cosmetics and China compliant.



## 5023 | CARNAUBA WAX

Standard quality from middle-aged leaves.\*\*

INCI (EU): Copernicia Cerifera Cera | INCI (USA): Copernicia Cerifera (Carnauba) Wax | MP: 80–86 °C



## 5026 | CARNAUBA WAX

Filtrated quality from middle-aged leaves.

INCI (EU): Copernicia Cerifera Cera | INCI (USA): Copernicia Cerifera (Carnauba) Wax | MP: 80–86 °C



## 2442 | CARNAUBA WAX

Very hard wax with high melting point. Standard quality from young leaves.\*\*

INCI (EU): Copernicia Cerifera Cera | INCI (USA): Copernicia Cerifera (Carnauba) Wax | MP: 82–86 °C



## 2442L | CARNAUBA WAX

Light-colored, L-quality\* from young leaves.\*\*

INCI (EU): Copernicia Cerifera Cera | INCI (USA): Copernicia Cerifera (Carnauba) Wax | MP: 82–86 °C



## 6642 | CARNAUBA WAX LC ORGANIC

Very light-colored organic quality from young leaves with very high oil binding capacity.\*\*

INCI (EU): Copernicia Cerifera Cera | INCI (USA): Copernicia Cerifera (Carnauba) Wax | MP: 82–86 °C



## 2901 | CARNAUBA WAX SUBSTITUTE

Hard wax with high melting point as a low cost alternative to natural carnauba wax.

INCI (EU/USA): Paraffin, Glycol Montanate, Synthetic Wax | MP: 76–82 °C

\* Due to a particular production procedure, all impurities are removed. The wax shows a clear melt and contains <5 mval/kg peroxides.

\*\* Complies with the GRAS status of the FDA (USA) as well as EC regulation No. 231/2012 for food additives.



## KAHL HYDROCARBON WAXES

Microcrystalline wax is produced by de-oiling petrolatum as a part of its refining process. It consists of saturated aliphatic hydrocarbons with a high molecular weight. Due to the typical crystal structure, which is small, thin and flexible, microcrystalline waxes are high melting (>75 °C). They are characterized by the fineness of their crystals. The elastic and adhesive characteristics of microcrystalline waxes are related to their non-straight chain components. Microcrystalline waxes are usually not used for hardening sticks, but to improve the moldability of formulations and their breakage resistance.

Paraffin wax is also derived from petroleum and contains mostly unbranched alkanes. It has large crystals, but a lower molecular weight than microcrystalline wax. Paraffin wax is not very flexible, but improves the hardness of sticks.

Ozokerite, ceresin, and montan waxes are originally mineral waxes which are derived from coal and shale. As the mining of coal and shale has significantly declined, availability is diminishing. Ozokerite for cosmetics are nowadays synthesized from petroleum, exactly like microcrystalline waxes. Ozokerites reduce the brittleness of stick preparations and add strength (hardness) and stability.

Polyethylene waxes are created by cracking polyethylene at 400 °C. There are high density and low density PE waxes. They have a very high melting point and therefore a huge impact on heat stability. Polyethylene wax forms hard oleogels and reduces oil bleeding. Typical use level is <5 % as at higher concentration the pay-off of stick preparations declines.



### 4180 | SYNTHETIC WAX

White, hard, high melting hydrocarbon wax. Reduces viscosity, increases hardness and raises the melting point of hot melts. Leads to very high gloss when used in stick preparations.\*\*\*

INCI (EU/USA): Synthetic Wax | MP: 108–116 °C



### 1899 | MICROWAX

White, medium hard hydrocarbon wax based on n- and isoparaffins. Cera Microcristallina is Kosher certified.



INCI (EU): Cera Microcristallina | INCI (USA): Ozokerite | MP: 72–79 °C



### 6202 | MICROWAX

White hydrocarbon wax with very similar chemistry and application as natural ozokerites. Shows excellent oil binding capacity especially in lipsticks. Stabilizes viscosity of W/O emulsions and enhances storage stability without raising viscosity. Higher in molecular weight and viscosity than most other ozokerites. Cera Microcristallina is Kosher certified.\*\*\*

INCI (EU): Cera Microcristallina | INCI (USA): Ozokerite | MP: 78–84 °C



### 6294 | MICROWAX

White mixture of different hydrocarbon waxes with excellent oil binding capacity and high melting point. It works very well in anhydrous stick preparations, oleogels, and other oil based pastes. Cera Microcristallina is Kosher certified.\*\*\*

INCI (EU): Cera Microcristallina | INCI (USA): Ozokerite | MP: 100–110 °C



### 6089 | MICROWAX

Pale colored, petrochemical wax consisting of branched-chain hydrocarbons. Plasticizer that improves homogenization of solvent based wax products.\*\*\*

INCI (EU): Cera Microcristallina | INCI (USA): Microcrystalline Wax | MP: 80–86 °C



### 7475 | MICROWAX

Hard, white microcrystalline wax, suitable for stick formulations. Improves heat resistance and raises the melting point of sticks without making them too brittle.\*\*\*

INCI (EU): Cera Microcristallina | INCI (USA): Microcrystalline Wax | MP: 88–96 °C



### 1847 | MICROWAX

Pale colored hydrocarbon wax consisting of branched-chain hydrocarbons derived from mineral oil.\*\*\*

INCI (EU): Hydrogenated Microcrystalline Cera | INCI (USA): Hydrogenated Microcrystalline Wax



### 2803 | POLYETHYLENE

Synthetic, white hydrocarbon wax. Improves the heat resistance of stick preparations, pastes and oleogels.

INCI (EU/USA): Polyethylene | MP: 106–111 °C

\*\*\* COLIPA recommendation 14 for hydrocarbons in lip products.