Artificial tanning (Sunless tan)









* معالى السراكنر حسب كل دركة في Vegulation و لله على السراكنر حسب كل دركة في Vegulation و كل على الكواد على وركة وسموح وتبعا مراكنر عن والكواد الكورة الكور

Artificial tanning (sunless tan):

Artificial sun tanning preparation contain a substance called

This substance reacts with amino acids in horny layer of the

جاری وفنال epidermis. Within a few hours a suntan-like color appears in the skin which may last for three to five days

The color resulting from this substance disappears gradually as the cells of the outer layers of the epidermis proceeds towards the surface of the skin and are shed naturally

Dihydroxyacetone does not protect the skin from the sun's rays.

So an effective sunscreen must be used during exposure to the

12/24/2022

sun الموجودة * ليرحتوك حواد ليتفاعل فع اله مام الموجودة * ليرحتوك حواد ليتفاعل فع اله مام الموجودة * ليرحتوك وليتعانى ال

﴿ حاد اللون الى سَرِّح مِن التَّفَاعِلُ حَالَهُ عَالَمَةً بِأَنَّهُ دِينَ الْحِلِّمُ مِنْ الْمُعَالَى المُعَامِ الْمُعَةَ السَّمِّى عَالِي مَعْلِي مَعُولُكُ عَلَى اللون عَالِمَتُي عَالَ الْحَلِّمِ الْحَلِّمِ Saja Hamed, Ph.D DHA

صوه نفسه ما اله مسوه في عدم التفاعل مع ري ما حديث كاذم يتم التفاعل مع المؤلفة من المؤلف

DHA is a prodye

Maillerd reaction ogen = Suger + amin Julie * * بفل عنا تفاعل Louis US Jap ler About three to four hours a tan color begins to appear

The reaction is complete in about 24 hours

ما يعطيك اللون ک مل

Areas of thicker skin react more with DHA so areas around fingernails,

Apply the product with gloves

palms and soles react to produce a stronger color المناطق الي فيصاح المخاص المخاص المخاص المخاص المخاص المخاص المخت المخت المخت المخت المحت المناطق المخت المحت المخت المحت ا البيد من انه يعض لون forming a brown color

The color stays until the skin is sloughed off

One problem with DHA tan is the odor during the development of the brown color reaction is no loces odor il ulo

The odor is a sign that tanning reaction is occurring

This is the same reaction that causes carmelization of food such as sugar and the browning of the outside of breads

تجی کت

غامق كازم

ا تنته فارجي Le Color 11 palm 11

of your hand هنه اللون رح

مر کر عافقا

فَ فَى DHA يَقِعَاعِلَ عع اله ١٥٠٥ المكونه لبرويين ← كيرانين الموجود باله SC

Applied by itself, erythrulose takes longer to produce a tan, المنافيات and the resulting tan fades quicker. The tan produced is also المرافية على المعامل ال

radicals similar to the effect seen with DHA

Saja Hamed, Ph.D

Combination is on the index of product of product of (erxthrulose + DHA) I is

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- Care should be taken to avoid wetting the body for about an hour after applying the preparation since this would prevent the appearance of artificial tan
- The preparation should not be allowed to get onto the scalp hair or the eyebrows since it may change the color of the hair
- The substance should be kept away from clothing since it may من الكراسي تبعه لو عيرها نقال عن المعرق و ١٥٠٥ الكروني عني الكراسي الكونها نيني برتقالي العربي عليها عبدة فيده نيتية انه بسعد الكلاه الكروني عني عليها عبدة فيده نيتية انه بسعد الكلاه الكروني عني الكروني عنيها الموقية فيده نيتية انه بسعد الكلاه الكروني عني الكروني عنيها الموقية فيده نيتية انه بسعد الكلاه الكروني عني الكروني عنيها الموقية فيده نيتية انه بسعد الكلاه الكروني عني الكروني عنيها الموقية فيده نيتية انه بسعد الكلاه الكروني عنيها الكروني عنيها الموقية فيده نيتية انه بسعد الكلاه الكروني عنيها الكروني عنيها الكروني عنيها الكروني الكروني عنيها الكروني عنيها الكروني الكروني عنيها الكروني الكروني
 - Before using the preparation it should be tried out first on a concealed area to check that there is no adverse reaction and to confirm that the skin color is the desired shade

تنصحه يستحنى المستحفر على حبزء مخفي من حبده مق نيأكد انه صاد اللون الي لبه اياه لعدين علم المناطق التاليك

Precautions:

- A thin, even layer of the preparation should be applied so as to avoid the appearance of uneven blotchy color of different انه عشان ما يطلع اماكن ما التان ميرها عادق واماكن هارت shades
- The hands should be washed after using the preparation to avoid staining the palms
- A soap with basic pH should not be used to wash the body before applying the preparation since the resulting color will tend to be more yellow rather than the desired brown shade اللون المناس
 - If a single application of the preparation does not produce a dark enough tan, it may be reapplied a few hours later

* فايستخدم طابون اله PH اعتمه قاعديه. وي العابونه المخدافها المتخدافها النابلسي قبل فا يستخدم اله طلامه Prown Shade الذفعر المؤون الم اللون يعبل المدون المدون يعبل المدون يعبل المدون يعبل المدون يعبل المدون المد

Saja Hamed, Ph.D

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بس طبعاً مده بيس

اللون ثنت و پیمون بعدین

As noted above, the use of DHA in "tanning" booths as an all-over spray has not been approved by the FDA, since safety data to support this use has not been submitted to the Agency for review and evaluation, When using DHA-containing products as an all-over spray or mist in a commercial spray "tanning" booth, it may be difficult to avoid exposure in a manner for which DHA is not approved, including the area of the eyes, lips, or mucous membrane, or even internally.

Consequently, FDA advises asking the following questions when considering commercial facilities where DHA is applied by spraying or misting:

- Are consumers protected from exposure in the entire area of the eyes, in addition to the eyes themselves?
- · Are consumers protected from exposure on the lips and all parts of the body covered by mucous membrane?
- Are consumers protected from internal exposure caused by inhaling or ingesting the product?

If the answer to any of these questions is "no," the consumer is not protected from the unapproved use of this color additive. Consumers should request measures to protect their eyes and mucous membranes and prevent inhalation.

Has FDA received reports of adverse reactions associated with sunless tanners?

FDA has received reports from consumers stating that they have experienced adverse events associated with sunless tanning, including rashes and, primarily in the case of spray tanning booths, coughing, dizziness, and fainting. It is uncertain what, if any, ingredient or combination of ingredients in the sunless tanning products might have caused these adverse events, whether an individual's allergic reaction might have played a part, or whether factors unrelated to the sunless tanning products may have been involved, such as pre-existing medical conditions.

Under the authority of the Fair Packaging and Labeling Act (FPLA), FDA requires ingredient declarations on cosmetics sold on a retail basis to consumers. In this way, consumers can know what ingredients are contained in the products they purchase and avoid ingredients to which they may be sensitive. However, the FPLA does not apply to products used exclusively by professionals, such as those used in spray tanning booths.

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cosmetics that enhance tanning

- One method to enhance the tanning process is to alter the biophysical properties of the skin allowing more UV radiation to penetrate to the melanocyte layer of the epidermis
- Oils permit greater amounts of UV radiation to enter the skin
- They have SPF of less than 1
- Meaning that a burn develops faster in the presence of oil on the skin than in the absence of the oil on the skin. some lotions may have a similar effect

Tanning oils:

- These are oils that are applied to the skin
- The skin color achieved using these oils is no different from the normal color that result from exposure to the sun without these oils

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Tanning oils:

Warnings

- They do not protect the skin from the sun. On the contrary, they may concentrate the sun's rays on those areas of skin covered with them and so lead to more sever damage from sun
- They may result in the appearance of:
- Miliaria U For glo oils I lal Sweat glands 11

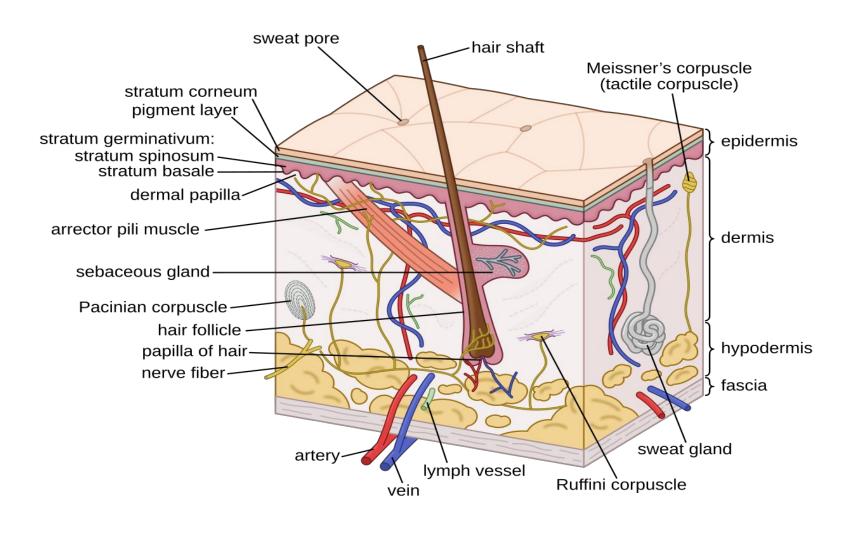
- Acne

Miliaria: results from obstruction of the sweat glands by the tanning oil



Acne: results from obstruction of sebaceous glands by the tanning oil





By Tomáš Kebert & umimeto.org, CC BY-SA 4.0, https://commons.wikimedia.org/w/index.php?curid=93271515

Miliaria Sweat Sis

Milia





https://dermnetnz.org

Miliaria

- -Miliaria is a common skin disease caused by blockage and/or inflammation of eccrine sweat ducts.
- -Miliaria is frequently seen in hot, humid, or tropical climates, in patients in hospital, and in the neonatal period.
- -Miliaria is also known as heat rash, sweat rash or prickly heat

Milia

- -A milium is a small <u>cyst</u> containing keratin (the skin protein); they
- are usually multiple and are then known as milia.
- -These harmless cysts present as tiny pearly-white bumps just under the surface of the skin.

Tanning bed

From Wikipedia, the free encyclopedia

"Sun lamp" redirects here. For lights used in horticulture, see grow light.

A **sunbed** (British English), **tanning bed** (American English) or **sun tanning bed** is a device that emits **ultraviolet radiation** (typically 95% UVA and 5% UVB, +/-3%)^[citation needed] to produce a cosmetic **tan**. Regular tanning beds use several **fluorescent lamps** that have **phosphor** blends designed to emit UV in a spectrum that is somewhat similar to the sun. Smaller, home tanning beds usually have 12 to 28 100 watt lamps while systems found in tanning salons can consist of 24 to 60 lamps, each of 100 to 200 watts. [citation needed]

There are also "high pressure" tanning beds that generate primarily UVA with some UVB by using highly specialized quartz lamps, reflector systems and filters. These are much more expensive, thus less commonly used. A tanning booth is similar to a tanning bed, but the person stands while tanning and the typical power output of booths is higher.

Because of the adverse effects on human health of overexposure to UV radiation, including skin cancer, cataracts, and premature skin aging, the World Health Organization does not recommend the use of UV tanning devices for cosmetic reasons. Studies have shown that tanning bed usage is associated with an increased risk of skin cancer, including melanoma. [1][2] Misusing a sunbed by not wearing goggles may also lead to a condition known as arc eye (snow blindness). Occasional acute injuries occur where users carelessly fall asleep, as in the case of Marty Cordova. [3]





Water (Aqua), Propanediol, Dihydroxyacetone, Glycerin, Aloe Barbadensis Leaf Juice Powder*, Heptyl Undecylenate, Argan Oil Polyglyceryl-6 Esters, Centella Asiatica Meristem Cell Culture, Hydrolyzed Algin, Caprylic/Capric Glycerides Polyglycerin-10 Esters, Sodium Hyaluronate, Chlorella Vulgaris Extract, Hibiscus Sabdariffa Flower Extract*, Chamomilla Recutita (Matricaria) Flower Extract*, Ascorbyl Palmitate, Vitis Vinifera (Grape) Seed Oil*, Citrus Aurantium Bergamia (Bergamot) Fruit Oil*, Cetearyl Glucoside, Alcohol Denat, Maris Aqua, Polyglyceryl-4 Caprate, Cyamopsis Tetragonoloba (Guar) Gum, Xanthan Gum, Fragrance, Gluconolactone, Potassium Sorbate, Sodium Benzoate



(5 sans revo noitsitora ei Ilman). Caprylate/Caprate, Cocoglycerides, Diethylamino Hydroxybenzoyl Hexyl Benzoate, Ethylhexyl - Sm s Cleen ingredient Methoxycinnamate, Isoamyl Laurate, Dicaprylyl Carbonate, Ethylhexyl Salicylate, Bis-Loliso 30 Got We are profecting our skin Ethylhexyloxyphenol Methoxyphenyl فَ نُسِهُ مَعْنِهُ فِي الرَّالِ وَلَكُنَّ عَلَيْهِ عَلَيْهِ الرَّالِ وَلَكُنَّ الْمُ وا بعن اني قاعد بعمل حرارة ون النعم Triazine, Helianthus Annuus Hybrid بالعكس بوجود الريان الاقلمر يزيه سرعة أَنْ خلام الجد بوجود الله الشيس Oil*, Undecane, Ethylhexyl Triazone, Tocopheryl Acetate, Olea Europaea Fruit Oil*, Daucus Carota different oils from Sativa Root Extract, Vitis Vinifera Seed different Plants Oil*, Lycopene, Beta-Carotene, Glycine Soja Oil, Helianthus Annuus Seed Oil*, Punica Granatum Seed Oil*, Tridecane, Brassica Campestris Seed Oil, Rosmarinus Officinalis Leaf Extract, Tocopherol, Sorbic Acid, Parfum 12/24/2022