

Natural Oils That Repel Insects

Citronella component in the compounds that give citronella oil its distinctive lemon scent Citronellol, a natural chemical found in citronella oils Citronelle (disambiguation) Citronella may refer to: c8841ee862

As of October 2018, the US FDA withdrew authorization for the use of methyl eugenol as a synthetic flavoring substance for use in food because petitioners (including the Natural Resources Defense Council, the Center for Food Safety, and the Center for Science in the Public Interest) provided data demonstrating that these additives induce cancer in laboratory animals. FDA noted the action was despite its continuing... c8841ee862 == References == c8841ee862 Resins protect plants from insects and pathogens and are secreted in response to injury. Resins repel herbivores, insects, and pathogens, while the volatile phenolic compounds may attract benefactors such as predators of insects that attack the plant. c8841ee862 Citronella (genus), of trees and shrubs c8841ee862 == Description == c8841ee862 For protection against ticks and mosquito bites, the U.S. Centers for Disease Control (CDC) recommends DEET, icaridin (picaridin, KBR 3023), oil of lemon eucalyptus (OLE), para-menthane-diol (PMD), IR3535 and 2-undecanone with the caveat that higher percentages of the active ingredient provide longer protection. c8841ee862 Plants that can be planted or used fresh to repel pests include: c8841ee862 In 2015, researchers at New Mexico State University tested 10 commercially... c8841ee862 Chemical repellents fall into two main categories, odor and taste. The former work better in the warm season and the latter, which ward off an animal only after it eats, in the cold season. (For example, the smell of the lawn fertilizer Milorganite is claimed to make it an effective repellent.) Such repellents mimic natural substances that deter animals and/or are designed to be so irritating to a specific animal or type of animal that it will avoid the protected object or area. Contact plant-origin repellents such as pepper,... c8841ee862 Citronella oil is also a plant-based insect repellent and has been registered for this use in the United States since 1948. The United States Environmental Protection Agency considers oil of citronella as a biopesticide with a non-toxic mode of action. c8841ee862 Tagetes tenuifolia is an annual herb sometimes reaching as much as 50 cm (20 in) tall. Leaves are less than 3 cm (1+1/4 in) long, deeply divided into many small parts. The plant produces many small bright yellow flower heads in a flat-topped array, each head with five ray florets and 7–9 disc florets. c8841ee862 The essential oils of many plants are also well known for their pest-repellent properties. Oils from the families Lamiaceae (mints), Poaceae (true grasses), and Pinaceae (pines) are common haematophagous insect repellents worldwide. c8841ee862 == Overview == c8841ee862 Synthetic repellents tend to be more effective and/or longer lasting than "natural" repellents. c8841ee862 Citronella oil is classified in trade into two chemotypes: c8841ee862

Tagetes tenuifolia possess a characteristic scent, which repels insects such as mosquitoes, small animals and smaller, burrowing insects. Tagetes tenuifolia is one of these Tagetes tenuifolia, the signet marigold, golden marigold or lemon marigold, is a North American species of the wild marigold in the family Asteraceae c8841ee862

Essential oils, according to ISO, are produced either by steam distillation, by mechanical manipulation of the rind of the fruits of the genus Citrus (also called cold pressing), or by dry distillation. Other methods, such as solvent extraction, are not accepted and, in fact, result in different perfumed products (pommades, concretes, and absolutes). They are used in perfumes, cosmetics, soaps, air fresheners and other products, for flavoring food and drink, and for adding scents to household cleaning products. c8841ee862

Cymbopogon nardus Essential oils are extracted from the aerial parts and applied topically Cymbopogon nardus, common name citronella grass, is a species of perennial aromatic plant from the family Poaceae, originating in tropical Asia. as citronella oil, which is widely used for its natural insect-repelling properties. nardus cannot be eaten because of its unpalatable nature and is an invasive species that renders pastureland useless, since cattle will starve even in its abundance. C c8841ee862

Essential oils are often used for aromatherapy. Improper use of essential oils may cause harm including allergic reactions, inflammation and... c8841ee862 Citronella oil, insect-repelling essential oil c8841ee862 It is the source of an essential oil known as citronella oil, which is widely used for its natural insect-repelling properties. Essential oils are extracted from the aerial parts and applied topically or slowly burned (e.g. in a "citronella candle") as an insect repellent, particularly to deter haematophagous insects such as mosquitoes. c8841ee862 Cymbopogon nardus, or citronella grass c8841ee862 Certain plants have shown effectiveness as topical repellents for haematophagous insects, such as the use of lemon eucalyptus sourced P-Menthane-3,8-diol, but incomplete research and misunderstood applications can produce variable results. c8841ee862 == Composition == c8841ee862

Methyl eugenol It also repels many insects. As of October 2018, the US FDA withdrew authorization for the use Methyl eugenol (allylveratrol) is a natural chemical compound classified as a phenylpropene, a type of phenylpropanoid. It is found in various essential oils. It is the methyl ether of eugenol and is important to insect behavior and pollination. pathogens, as methyl

eugenol has some antifungal activity

Citronella oil The oil is used extensively as a source of perfumery chemicals such as citronellal, citronellol, and geraniol. Citronella oil is used Citronella oil is an essential oil obtained from the leaves and stems of different species of Cymbopogon (lemongrass). These chemicals find extensive use in soap, candles and incense, perfumery, cosmetic, and flavouring industries throughout the world. from Cymbopogon species should not be confused with other similar lemony oils from Corymbia citriodora and Pelargonium citrosum

Insect repellent discourage insects (and arthropods in general) from landing or climbing on that surface. Pest animals commonly serving as vectors for disease include insects such as flea, fly, and mosquito; and arachnids such as ticks. Insect repellents help prevent and control the outbreak of insect-borne (and other arthropod-borne) diseases such as malaria, Lyme disease, dengue fever, bubonic plague, river blindness, and West Nile fever. Insect repellents help prevent and control the outbreak of insect-borne An insect repellent (also commonly called "bug spray" or "bug deterrent") is a substance applied to the skin, clothing, or other surfaces to discourage insects (and arthropods in general) from landing or climbing on that surface

Methyl eugenol is found in a number of plants (over 450 species from 80 families including both angiosperm and gymnosperm families) and has a role in attracting pollinators. About 350 plant species have them as a component of floral fragrance. Their ability to attract insects, particularly Bactrocera fruit flies (particularly, Bactrocera dorsalis male flies) was first noticed in 1915 by F. M. Howlett. The compound may have evolved in response to pathogens, as methyl eugenol has some antifungal activity. It also repels many insects. == Effectiveness == Most plant resins are composed of terpenes. Specific components are α-pinene, β-pinene, 3-carene, and sabinene, the monocyclic terpenes limonene and terpinolene, and smaller amounts of the tricyclic sesquiterpenes, longifolene, caryophyllene, and cadinene. Some resins also contain a high... Citronella oil has strong antifungal properties. "Citronella", a song by Aesop Rock from the 2007 album None Shall Pass

List of pest-repelling plants They have been used in companion This list of pest-repelling plants includes plants used for their ability to repel insects, nematodes, and other pests. This list of pest-repelling plants includes plants used for their ability to repel insects, nematodes, and other pests. They have been used in companion planting as pest control in agricultural and garden situations, and in households

Some insect repellents are insecticides (bug killers), but most simply discourage insects and send them flying or crawling away. == Table of pest-repelling plants ==

Essential oil An essential oil is essential in the sense that the oil contains the fragrance or essence of the plant. Essential oils are also known as volatile oils, ethereal oils, aetheroleum, or simply as the oil of the plant from which they were extracted, such as oil of clove. In case studies, certain oils have been shown to have a variety Essential oils are composed of hydrophobic volatile organic compounds, usually in liquid form, obtained from plant material. The term "essential" used here does not indicate that it is nutritionally required in the diet, as with essential amino acid or essential fatty acid. Research has shown that some essential oils have potential as a natural pesticide. anxiety

== Types ==

Resin Resins are used in varnishes, adhesives, food additives, incenses, and perfumes. Resins protect plants from insects and pathogens and are secreted in response to injury. Resins are mixtures of organic compounds insoluble in water, predominantly terpenes. Resins repel herbivores, insects, and pathogens, while the volatile A resin is a highly viscous liquid or solid that can be converted into a polymer. Resins may be biological or synthetic in origin but are typically harvested from plants. Technically, resins should not be confused with gums, which consist predominantly of water-soluble polysaccharides, although the two terms are often interchangeable in the less formal context. Common resins include pine oleoresins, amber, hashish, frankincense, myrrh, and the animal-derived resin shellac

Animal repellent Humans purposely make use of some of those and create a way to repel animals through various forms of protection. create a way to repel animals through various forms of protection. Plants and other living organisms naturally possess a special ability to emit chemicals known as semiochemicals as a way to defend themselves from predators. Repellents generally work by taking advantage of an animal's natural aversion to something An animal repellent consists of any object or method made with the intention of keeping animals away from personal items as well as food, plants or yourself

Repellents generally work by taking advantage of an animal's natural aversion to something, and often the thing chosen is something that the animal has learned to avoid (or instinctively

avoids) in its natural environment. c8841ee862

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