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Fumigation with Essential Oil Components The fumigant toxicity of eight essential oil components at 0.25, 5, 10, 20, 40, and 60 μ L/L was investigated by exposing five pairs of 1-day-old adult male and female *C. maculatus* to vapors from the oil components in 1 L wide-mouthed glass Mason jars containing 20 g of cowpea

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seeds.

Fumigation Toxicity of Essential Oil Monoterpenes to ...

The fumigation toxicity of three selected EOs (cinnamon, clove and anise EO) against *S. oryzae* was also tested and their LC 50 values were presented in Table 3. In the fumigation assay, similar to the previous study (Liao et al., 2016), three selected EOs showed strong toxicity to *S. oryzae* and resulted into a dose-dependent mortality.

Comparison of antibacterial effects and fumigant toxicity ...

Essential oils and flavors are complex chemicals that may have the potential to worsen the risks associated with tobacco product use. The inhalation toxicity of these ingredients is often poorly ...

Assessment of Inhalation Toxicity of Essential Oils and ...

Three essential oils (*Curcuma aeruginosa*, *Schizonepeta tenuifolia* and *Valeriana officinalis*) did not show fumigant toxicity at a concentration of 50.00 µg/l. Chemical composition of garlic essential oil was determined using GC-MS.

Evaluation of fumigant toxicity of essential oils of ...

In this study, fumigant toxicity of some essential oils extracted from *Rosmarinus officinalis* L., *Mentha pulegium* L., *Zataria multiflora*, and *Citrus sinensis*(L.) Osbeck

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var. hamlin on adults of stored-product pests, including *Tribolium castaneum*, *Sitophilus granarius*, *Callosobruchus maculatus*, and *Plodia interpunctella* were investigated.

FUMIGANT TOXICITY OF SOME ESSENTIAL OILS ON ADULTS OF SOME ...

Essential oils affect the respiratory system, cuticle, and digestive system of insects via fumigant toxicity, contact effects, and antifeedant producer (Prates et al., 1998). Fumigant toxicity of both plant oils and their nano-capsules showed that *C. cyminum* and *L. angustifolia* were toxic to adults of the tested pests.

Fumigant Toxicity of Two Nano-Capsulated Essential Oils ...

In fumigation assay, coriander and eucalyptus oils at 130µg/cm², caused 100% toxicity to all the species within 24 hrs of treatment, whereas pine oil revealed, 90% mortality at same concentration after 72 hrs of treatment. In contact assay, the test oils were effective against adults of

Fumigant and contact toxic potential of essential oils ...

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Essential oils mimic other fat soluble drugs, are well absorbed through mucous membranes and the skin and are excreted unchanged or as hepatic metabolites via lungs, urine, faeces and skin. Dose related toxicity: 5–15 mL should be considered a potentially toxic dose in adults, for some essential oils 2-3 mL ingestions have been associated with toxicity in children.

Clinical Practice Guidelines : Essential Oil Poisoning

Different dilutions of both essential oils (0.10–0.25%, v/v) caused acute contact toxicity, although the sage extract showed greater acaricidal activity than rosemary oil.

(PDF) Acute toxicity of several essential oils on Daphnia ...

Moreover the highest essential oils toxicity at the Median lethal concentration (LC50) values for exposure periods (3, 5 and 7 days) to fumigation were (126, 53, and 47 mg/L air) for adult stage and were (79, 62, and 41 mg/L air) for larval stage, respectively in the case of Garlic oil treatment.

Fumigant toxicity of some essential oils against Red Flour ...

The mites were susceptible to the oils and chemical constituents using the fumigation method. The *O. duckei* oil was respectively 2.5-fold and 1.5-fold more toxic than the *O. glomerata* oil using the fumigation and residual contact methods.

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Among the selected constituents, β -caryophyllene was the most toxic, independently of the method employed.

Comparative toxicity of essential oil and blends of ...

Among those aimed at killing the insect pests, 44.21% of the trials regard the use of essential oils, or EO-based insecticide formulations, applied as fumigants; 21.66% evaluated the contact toxicity, and less than 1% of the studies tested the insecticidal efficacy by ingestion route.

Essential Oils in Stored Product Insect Pest Control

Essential oils are derived from plant parts. Because they have a scent, essential oils are often used in perfumes, cosmetics, room fresheners, and flavorings. Many have a history of medicinal use, too. Misuse of essential oils can cause serious poisoning.

Essential Oils: Poisonous when Misused

Tests were conducted to determine lethals concentrations (CL50 and CL100) and mortality (fumigation). The fumigation test was done in containers made of glass containing 10 individuals of *R. dominica*, where essential oils were applied at different concentrations: *O. basilicum* and *M. spicata* (5, 10, 15, 20, 30 and 40 μ L/L of air), *C. aurantium* (10, 20, 30, 40, 50 and 60 μ L/L of air) and *C. pulegioidorus* (0, 20, 30, 50, 70 and 90 μ L/L of air).

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FUMIGATION TOXICITY OF ESSENTIAL OILS AGAINST Rhyzopertha ...

The EO was toxic to *S. zeamais* when ingested (LC 50 102.66 $\mu\text{L/g}$) and caused changes in the nutritional parameters (relative consumption rate, relative biomass gain, and efficiency of food conversion). The oil was also toxic by contact (LC 50 70.64 $\mu\text{L/mL}$) and fumigation [64 $\mu\text{L/L}$ in the air caused the highest mortality (43.75%)]. However, no repellent property was detected.

Chemical characterization and insecticidal effect against ...

Fumigant Toxicity of Essential Oils from Basil and Spearmint Against Two Major Pyralid Pests of Stored Products. Eliopoulos PA (1), Hassiotis CN (2), Andreadis SS (3), Porichi AE (4). (2)Technological Educational Institute of Thessaly, Department of Natural Environment & Forestry, Karditsa, 43100, Greece.

Fumigant Toxicity of Essential Oils from Basil and ...

The fumigant toxicity of 12 essential oil components [carvacrol, 1,8-cineole, trans-cinnamaldehyde, citronellic acid, eugenol, geraniol, S-(–)-limonene, (–)-linalool, (–)-menthone, (+)- α -pinene, (–)- β -pinene, and thymol] to adult male, adult female, gravid female, and large, medium, and small nymphs of the German cockroach, *Blattella germanica* (L.) (Dictyoptera: Blattellidae), was determined. 1,8-Cineole was the most toxic essential oil component to adult males and females

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