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## **Toxicity Sublethal Effects And Potential**

Some of these effects can occur at fungicide concentrations well

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below single-species acute lethality values (48- or 96-hour concentration that effects a response in 50 percent of the organisms, that is, effective concentration killing 50 percent of the organisms in 48 or 96 hours) and chronic sublethal values (for example, 21-day no observed adverse effects concentration), indicating that single-species toxicity values may dramatically underestimate the toxic potency of some fungicides.

### **Toxicity, Sublethal Effects, and Potential Modes of Action**

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Elskus, A.A., 2012, Toxicity, sublethal effects, and potential modes of action of select fungicides on freshwater fish and invertebrates: U.S. Geological Survey Open-File Report 2012-1213, 42 p., at

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### **Toxicity, Sublethal Effects, and Potential Modes of Action**

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Toxicity, Sublethal Effects, and Potential Modes of Action of Select Fungicides on Freshwater Fish and Invertebrates . By Adria A. Elskus . 1BAbstract . Despite decades of agricultural and urban use of fungicides and widespread detection of these pesticides in surface waters, relatively few data are available on the effects of fungicides on ...

### **Toxicity, Sublethal Effects, and Potential Modes of Action**

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### **Toxicity, sublethal effects, and potential modes of action**

...

Sublethal toxicity arises when the exposure levels exceed the thresholds of the physiological mechanisms that maintain the basic biological functions, such as homeostasis and compensation. Repairing toxic effects require extra energy expenditure, and thus sublethal toxicity manifests in a decreased energy budget, fecundity, and growth performance.

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## **Sublethal Effect - an overview | ScienceDirect Topics**

Sublethal effects such as erratic swimming, loss of equilibrium, jaw spasms, gulping respiration, lethargy, and darkened pigmentation were observed in various fish studies after pyrethroid exposure, and these effects typically occurred at concentrations that were less than concentrations where mortality occurred.

## **Sublethal Effects - an overview | ScienceDirect Topics**

Testing for effects of pesticides on nontarget organisms is an integral part of ecological risk assessment. In the present study, the acute toxicity of sulfoxaflor to earthworms was evaluated using an artificial soil toxicity test, and sublethal effects were assessed through oxidative stress and metabolomics. Sulfoxaflor is a supertoxic pollutant to earthworms that easily bioaccumulates in ...

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## **Lethal Toxicity and Sublethal Metabolic Interference ...**

Our results show that aside from the lethal effect, the sublethal concentration of imidacloprid and bifenthrin impairs the phloem feeding, i.e. the most important feeding trait in a plant protection perspective. Indeed, this antifeedant property would give these insecticides potential to control insect pests indirectly.

## **Assessment of potential sublethal effects of various ...**

To understand whether sulfoxaflor, a novel neonicotinoid, poses unacceptable risks to the environment, it is important to assess its effects on nontarget insects. Therefore, the effects of short-term exposure (28 days) of free-feeding sublethal concentrations (1-2 $\mu$ g/ml) of sulfoxaflor to the red imported fire ant, *Solenopsis invicta*, were investigated.

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**Toxicity and sublethal effects of sulfoxaflor on the red ...** effects, and in some cases lethal effects as well. Sublethal effects may include growth reduction, reproductive impairment, nerve function impairment, lack of motility, behavioral changes, and the development of terata, which are structural abnormalities. Results can be analyzed in several 5 As used in the Bulletin, LOEC is synonymous with Lowest Observed

### **Using Toxicity Tests in Ecological Risk Assessment**

In the present work, we evaluate the toxic and repellent properties of lemongrass (*Cymbopogon citratus* (DC. ex Nees) Stapf.) essential oil and its components against *Sitophilus granarius* Linnaeus as an alternative to insecticide use. The lethal dose (LD50 and LD90), survivorship, respiration rate, and repellency on adults of *S. granarius* exposed to different doses of lemongrass oil and some of ...



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## **Acute Toxicity and Sublethal Effects of Lemongrass ...**

Indirect toxicity occurs with a change in the physical, chemical, or biological environment. Lethality is most common effect used in toxicology and used as an endpoint for acute toxicity tests. While conducting chronic toxicity tests sublethal effects are endpoints that are looked at. These endpoints include behavioral, physiological, biochemical, histological changes.

## **Aquatic toxicology - Wikipedia**

BACKGROUND: This study was undertaken to identify the potential side effects of the novel naturalyte insecticide spinetoram in comparison with spinosad on the bumblebee *Bombus terrestris* L. The potential lethal effects together with the ecologically relevant sublethal effects on aspects of bumblebee reproduction and foraging behaviour were ...

## **Lethal and sublethal side-effect assessment supports a ...**

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Ecotoxicity and Sublethal Effects of Oil in the Environment NOAA Regional Preparedness Training Workshop May 24-26, 2016 Galveston, TX Lisa DiPinto, Ph.D. NOAA Office of Response and Restoration 1 Oil Toxicity Documented in Literature: Numerous Lab and Field Studies • Fish • Invertebrates • Birds • Mammals • Reptiles • Plants • Plankton

## **Ecotoxicity and Sublethal Effects of Oil in the Environment**

Furthermore, as is widely reported with traditional insecticides, sublethal exposure to essential oils might induce stimulatory responses or contribute to the development of resistance strategies that can compromise the management of insect pests.

## **Sublethal Exposure to Clove and Cinnamon Essential Oils**

...

As the scope of this study did not include toxicity identification

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evaluation, we can only attribute the sublethal effects of the sample effluents on the fecundity of the *Daphnia magna* on suspended materials and particle-bound organic chemicals such as EDCs, PPCPs, and pesticides. One possible effect of contaminated particles on particle-feeding organism like daphnids is a drastic reduction in food intake causing serious chronic effects on the population level.

### **Toxicity characteristics of sewage treatment effluents and ...**

Effects of chlorpyrifos on the hematological parameters of the fish were also observed. Fish specimens were exposed to three sublethal concentrations of chlorpyrifos viz., sublethal I (SL-I, 1/6th of LC 50 =  $\sim 73.8 \mu\text{g/L}$ ), sublethal II (SL-II, 1/4th of LC 50 =  $\sim 110.7 \mu\text{g/L}$ ) and sublethal III (SL-III, 1/2nd of LC 50 =  $\sim 221.4 \mu\text{g/L}$ ) for 96 h ...

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## **Genotoxic and hematological effects of chlorpyrifos ...**

and serves to illustrate the potential hazard of formulating inaccurate conclusions from results of studies of single stressors. It is possible that additional chemicals not included in the Pyrethroid screen or LC-screen could be contributing to the observed toxicity and sublethal effects on gene expression. Changes in swimming behavior after

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