

BOUND PESTICIDE RESIDUES IN SOILS AND PLANTS, AND THEIR DETERMINATION

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ABSTRACT

To assess the environmental significance of pesticide residues in soil and plants one must distinguish between two types of residues: those that are extractable with solvents, and those residues that are not extractable with solvent. The extent of bound (non-extractable) residues varies with the plant and pesticide involved and generally increases with time after treatment. Bound pesticide residues have been detected in the organic matter fractions of soil, i.e. humic acid, fulvic acid, and humin. Several studies have shown that lignin, hemicellulose and pectic polysaccharide are the major bound residues fraction of pesticide in plants.

Attempts have been made to extract bound pesticide residues by the milder to harsher methods. Drastic extractive procedures destroy the structure of soil or plants often results in the destruction of the identity of bound residues. The High Temperature Distillation (HTD) and Supercritical Fluid Extraction (SFE) techniques may provide possible means for extraction and identification of bound residues in food products. Regulatory agencies should also consider placing further emphasis on employing more effective extraction techniques and procedures to quantitatively remove bound residues.

Key words: bound pesticide residues, supercritical fluid extraction

Pesticide Bound Residues In Soil

G. Davies, E. Ghabbour



Pesticide Bound Residues In Soil:

Pesticide Bound Residues in Soil Senate Commission on the Assessment of Chemicals used in Agriculture, 1998-10-27 20 to 80 % of the chemicals applied in agriculture are sorbed fixed encapsulated or bound in the soil so they are not anymore analytically detectable This book covers the results of a workshop initiated by the Senate Commission for the Assessment of Chemicals used in Agriculture of the Deutsche Forschungsgemeinschaft It discusses the state of the art and outlines future research priorities The topics presented range from methods of determining the nature of the bond new extraction methods and their role in humic chemistry in general stimulation of formation of bound residues and their practical relevance the role of dissolved organic matter on turnover and translocation bioavailability and uptake of bound residues by plants and soil organisms to ecotoxicological assessment of bound residues in soil plant system The results finally lead to a modification of the definition of bound residues

Pesticide/Soil Interactions Juan Cornejo, Paul Jamet, 2000 This joint authored book brings together approximately 50 current research methods developed and implemented in research laboratories in Europe to study pesticide soil interactions Its usefulness for researchers teachers and professionals concerned by the environmental impact of pesticides was one of the major elements taken into consideration when structuring this book It will be a valuable asset to chemists physical chemists biochemists biologists and geologists interested in studying the behaviour of pesticides in soils

Quantitation of Bound Pesticide Residues in Field and Wetland Soils Larry Warren Wulf, 2001 The formation of bound pesticide residues occurs during the first few days of contact with the soil with a substantial amount of instantaneous formation of bound residues The instantaneous formation of bound residues in soil favors a model of energetically favorable entrapment of pesticides within voids and micropores arising within aromatic rich portions of the structure of aggregated humic acids A triangular model of pesticides in soil was developed between those pesticides in the aqueous soil solution phase pesticides partitioned to the soil phase and those pesticides in the bound fraction Equations were developed that describe the concentration of bound pesticides in field and wetland soils upon initial soil contact and also the maximum concentrations of bound pesticides in the soil as a function of contact time

Pesticides in the Soil

Environment Shahamat U. Khan, 2016-06-13 Fundamental Aspects of Pollution Control and Environmental Science 5 Pesticides in the Soil Environment focuses on the effects of pesticide use on the quality of soil The manuscript first offers information on the classification of pesticides and physicochemical processes affecting pesticides in soil Topics include herbicides fungicides movement in soil chemical conversion and degradation and photodecomposition The text then elaborates on microbial processes affecting pesticides in soil including fumigants fungicides and insecticides The text examines the occurrence and persistence of pesticide residues in soil and minimizing pesticide residues in soil Discussions focus on persistence bound residues plant uptake short residual residues and eliminating pesticide residues The text is a dependable reference for readers interested in the effects of pesticide use on the quality of soil

Treatment of

Contaminated Soil Rainer Stegmann, Gerd Brunner, Wolfgang Calmano, Gerhard Matz, 2013-03-09 Newly developed and innovative methods are mentioned and outlined so that the book can be used as a source of information for scientists and professionals specialised in the treatment of soils as well as for students in courses of environmental studies The book offers a short compressed overview of the important features of this subject and can be used as a reference book of the state of the art The appendix offers the interested reader a detailed survey of materials test methods and apparatuses as well as a description of analytical directions and processes

Ecotoxicology of Soil Organisms Herman Eijsackers, Fred Heimbach, Marianne H. Donker, 1993-12-09 This book provides a comprehensive examination of all aspects of the ecotoxicology of soil organisms The book explains how contaminants reach the soil traces their transport through the soil and then moves on to examine the effects of contaminants on different groups of soil organisms e g microorganisms micro and mesofauna larger soil animals including vertebrates The book also considers food chain transfer and discusses risk assessment procedures that are specific to soil conditions Ecotoxicology of Soil Organisms is the only book to take such a sweeping approach toward soil ecotoxicology

Quantification, Nature and Bioavailability of Bound 14C-pesticide Residues in Soil, Plants and Food Joint FAO/IAEA Division of Isotope and Radiation Applications of Atomic Energy for Food and Agricultural Development, 1986 The publication contains the papers presented at a research co ordination meeting held in Gainesville Florida 25-29 March 1985 The joint FAO IAEA programme was designed to assist scientists of developing countries to make safe and effective use of nuclear techniques for studying pesticide interactions with various components of the agricultural ecosystems The book also contains a report on the results of a collaborative study using a model protocol for the determination of bound residues in soil and appraisal of the overall programme accomplishments

Pesticide Interactions in Crop Production J. Altman, 2018-01-18 Pesticide Interactions in Crop Production Beneficial and Deleterious Effects evaluates the effects of pesticides on plants by exploring the physical chemical biological and ecological interactions of pesticides that influence a crop The effects of pesticides on the environment and on the crop pests themselves are considered as well Specific topics addressed include iatrogenic responses the fate of pesticides applied to cereals under field conditions the persistence of pesticides on target crops the effect of pesticides on soil symbionts and the role of ecological agriculture on conventional and organic cropping systems Pesticide Interactions in Crop Production Beneficial and Deleterious Effects will be an important volume for agriculturalists phytologists mycologists soil biologists plant pathologists tropical ecologists arboriculturalists and other researchers interested in the effects of pesticides on crops and soil

Residue Reviews Francis A. Gunther, Jane Davies Gunther, 2012-12-06 Worldwide concern in scientific industrial and governmental communities over traces of toxic chemicals in foodstuffs and in both abiotic and biotic environments has justified the present triumvirate of specialized publications in this field comprehensive reviews rapidly published progress reports and archival documentations These three publications are integrated and scheduled to provide in international

communication the coherency essential for nonduplicative and current progress in a field as dynamic and complex as environmental contamination and toxicology Until now there has been no journal or other publication series reserved exclusively for the diversified literature on toxic chemicals in our foods our feeds our geographical surroundings our domestic animals our wild life and ourselves Around the world immense efforts and many talents have been mobilized to technical and other evaluations of natures locales magnitudes fates and toxicology of the persisting residues of these chemicals loosed upon the world Among the sequelae of this broad new emphasis has been an inescapable need for an articulated set of authoritative publications where one could expect to find the latest important world literature produced by this emerging area of science together with documentation of pertinent ancillary legislation

Soil Biology J. L. Hatfield, 2018-01-18 Soil Biology is a state of the art review focusing on the linkage between biological processes that occur in the soil and their impact on soil quality Topics considered include the microbial ecology of conservation management systems dynamic processes of vesicular arbuscular mycorrhizae earthworms and soil fauna microbial processes in the soil and the degradation of pesticides through microbial processes The book will interest soil scientists microbiologists agronomists and soil ecologists

Biogeodynamics of Pollutants in Soils and Sediments Wim Salomons, William M. Stigliani, 2012-12-06 In the USA Western and Central Europe there are many large scale polluted sites that are too large to be cleaned up economically with available technologies The pollution is caused by heavy industries to soils and sediments in waterways and reservoirs Since these areas are expected to remain polluted for many years it is necessary to take a long term view to insure that the capacity to retain the contaminants is not diminished and to understand the potential for large scale contaminant mobilization at these sites triggered by changing environmental conditions This book provides information for predicting long term changes and making risk assessments and describes the approach of geochemical engineering to handling large scale polluted sites

Humic Substances G. Davies, E. Ghabbour, 2003-11-28 Humic substances are ubiquitous in the environment These remarkable brown biomaterials are found in animals plants coals sediments soils and water They are crucial components of the carbon cycle and other life processes Humic Substances Nature s Most Versatile Materials contains a compilation of papers presented at the 2002 Humic Substances Seminar and will keep humic substances scientists up to date with the latest research

Reviews of Environmental Contamination and Toxicology George W. Ware, 2012-12-06 Global attention in scientific industrial and governmental communities to traces of toxic chemicals in foodstuffs and in both abiotic and biotic environments has justified the present triumvirate of specialized publications in this field comprehensive reviews rapidly published progress reports and archival documentations These three publications are integrated and scheduled to provide in international communication the coherency essential for nonduplicative and current progress in a field as dynamic and complex as environmental contamination and toxicology Until now there has been no journal or other publication series reserved exclusively for the diversified literature on toxic chemicals in our foods our feeds

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Soil Components and Human Health Rolf Nieder, Dinesh K. Benbi, Franz X. Reichl, 2018-01-10 This volume highlights important links existing between soils and human health which up to now are not fully realized by the public Soil materials may have deleterious, beneficial or no impacts on human health therefore understanding the complex relationships between diverse soil materials and human health will encourage creative cooperation between soil and environmental sciences and medicine The topics covered in this book will be of immense value to a wide range of readers including soil scientists, medical scientists and practitioners, nursing scientists and staff, toxicologists, ecologists, agronomists, geologists, geochemists, public health professionals, planners and several others

Bioavailability of Organic Xenobiotics in the Environment P. Baveye, J.-C. Block, V.V. Goncharuk, 2013-03-14 In the continuing fight against organic environmental xenobiotics the initial success attributed to bioremediation has paled in part due to the low availability of xenobiotics entrapped within a soil or sediment matrix This has generated a very significant wave of interest in the bioavailability issue However much experimental evidence is puzzling or contradictory mechanistic theories are embryonic and implications for the practice of bioremediation or concerning the natural fate of xenobiotics are still tentative The debate in Europe and the USA is vigorous Eastern Europe following the liberalisation of the economy and political life is evolving in a similar direction In many cases however limited access to literature sources, severe language barriers and the lack of a strong pluridisciplinary tradition are hampering the adoption of state of the art techniques Originally intended to allow scientists in East European countries to become acquainted with the key aspects of the bioavailability debate that is unfolding in the scientific literature in the West and with its implications for bioremediation efforts the present book presents a very complete coverage of the theoretical and practical aspects of the limited bioavailability of organic xenobiotics in the environment

Soil Biochemistry, Volume 10 Guenther Stotzky, 2000-03-24 An exploration of the most complex microbial ecosystems with incisive reviews of developments in soil science It presents techniques of chemical analysis, refinements of environmental protection measures and methods for maximizing agricultural yields It also addresses a wide range of biochemical processes and practical applications of advanced

Bioavailability of Organic Chemicals in Soil and Sediment Jose Julio Ortega-Calvo, John Robert Parsons, 2020-10-15 This book discusses bioavailability concepts and methods summarizing the current knowledge on bioavailability science as well as possible pathways for integrating bioavailability into risk assessment and the regulation of organic chemicals Divided into 5 parts it begins with an overview of chemical distribution in soil and sediment as well as the

bioavailability and bioaccumulation of chemicals in plants soil invertebrates and vertebrates including humans It then focuses on the impact of sorption processes and reviews bioavailability measurement methods The closing chapters discuss the impact of bioavailability studies on chemical risk assessment and highlights further research needs Written by a multi disciplinary team of authors it is an essential resource for scientists in academia and industry students as well as for authorities

Sustainable Agriculture Reviews 47 Inamuddin,Mohd Imran Ahamed,Eric Lichtfouse,2020-11-30 This book presents recent reviews on the occurrence analysis toxicity and remediation of pesticides in biological systems such as fish chickens water soil and food

Soil Organic Matter M. Schnitzer,S.U. Khan,1975-01-01 Soil Organic Matter

Fate And Prediction Of Environmental Chemicals In Soils, Plants, And Aquatic Systems Mohammed Mansour,2018-02-06 Fate and Prediction of Environmental Chemicals in Soils Plants and Aquatic Systems focuses on the chemical persistence and ecotoxicological behavior of pesticides in soil water and plants The book examines recent developments in research on various substances and relays information regarding transport adsorption absorption accumulation degradation biological effects toxicity to aquatic organisms air pollution exposure and risk estimation Leading international scientists present their advances in analytical methodology and instrumentation in the fields of agrochemicals and environmental chemistry This useful review of data methods and principles will benefit environmental researchers managers biologists chemists pharmacologists and others interested in assessing the potential for contamination of soil air water and plants

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