

## Sorption behaviour of maneb in the agriculture soils and its correlation with soil properties

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**Abstract**— *Maneb* is a broad spectrum fungicide, often reported as a carcinogenic, teratogenic and neurodegenerative agent. Thus, the occurrence of maneb at non-targeted sites is a cause of concern. The present study investigates adsorption-desorption behaviour of maneb in the agricultural soils to know its fate, mobility and availability in the soil. The sorption study was carried out by batch equilibration procedure. Maneb adsorption followed Langmuir isotherm and was accompanied by increase in manganese content of the soil. Maximum adsorption was observed in soil having the highest clay content. High maneb retention was observed in presence of soils modified with organic matter. The results of this study indicate that the clay and organic matter content of soil have significant influence on sorption behaviour of maneb. Amending soil with organic matter can reduce maneb pollution at non-targeted sites.

**Keywords**— *Fungicide, Parkinson disease, Manganese, Organic matter*

### I. INTRODUCTION

Maneb is a polymeric complex of manganese (Mn) with the ethylene bis (dithiocarbamate). Maneb is a broad spectrum fungicide that is extensively applied against a wide range of fungal pathogens affecting ornamental plants, food and feed crops (Garcinuoso et al., 2004). For instance, in the early years of this century in the USA approximately 2.5 million pounds of maneb are used annually targeting fungal diseases of almonds, apple, banana, bean, lettuce, walnut and peppers (US EPA, 2005). In India maneb is abundantly used in states like Punjab, Haryana, Uttar Pradesh, Himachal Pradesh, Jammu and Kashmir, Tamil Nadu, Madhya Pradesh, Bihar and Andhra Pradesh for protecting food/feed crops (Bhushan et al., 2013). The problem related the difficulty in applying them to the targets and limiting their distribution in the non-targeted environmental sites. The extensive use of maneb has been shown to cause soil and water pollution in a banana production region of tropical Mexico (Geissen et al., 2010).

Maneb and its degradation intermediates have been reported to act as carcinogenic, neurodegenerative agent and teratogenic agents (Sharma et al., 2005; Baltazar et al., 2014). Baltazar et al. (2014) highlighted maneb as one of the potential etiological factor for neurodegenerative diseases like Parkinson disease, Alzheimer's disease and amyotrophic lateral sclerosis. Consequently, maneb was among the highest ranked hazardous pesticide for overall chronic health risk, while ranking the agriculture pesticides used in Yuma County, Arizona, USA (Sageng et al., 2013). Sageng et al. (2013) highlighted maneb as an endocrine-disrupting carcinogenic fungicide.

Extensive uses at higher doses and hazardous nature of maneb have made it a global concern for policymakers and environmentalists (Bhushan et al., 2013). Its ecotoxicological impact, environmental mobility and rate of degradation in environment is influenced by its soil sorption behavior and physico-chemical properties of soil. Fungicide sorption and desorption in soil generally occurs at mineral, organo-mineral and organic particle surfaces. Since, soil has a complex composition and architecture, the overall sorption of a chemical is a composite of many surface interactions occurring in parallel (Wu and Gishwend, 1986). Better understanding of sorption and factors affecting it make it possible to regulate a pesticide's uses and thus manage its environmental impacts.

The aim of the present study was to determine the adsorption-desorption behavior of maneb in the agricultural soils collected from Punjab and Himachal Pradesh, India. Kinetics and isotherm adsorption experiments were carried out to have a better insight into the sorption process of maneb in relation to the soil properties. Farmers tend to add organic matter (OM) to soil for increasing the yield. Hence, the influence of externally added OM on adsorption-desorption behavior of maneb was also studied.

# Maneb 2015 Agriculture

**Jules N. Pretty**

## Maneb 2015 Agriculture:

*Regional, innovativ und gesund* Steven Engler, Oliver Stengel, Wilfried Bommert, 2016-06-13 Aktuell steht die Weltbevölkerungen vor vielen entscheidenden Herausforderungen die es zu bewältigen gilt. Der globale Klimawandel und die zunehmende Ressourcenverknappung sind dabei die bekanntesten Beispiele. Eine zentrale Herausforderung wird bei der Debatte gerne vernachlässigt herabgewertigt oder gar vergessen: Nämlich das Ernährungsproblem. Weltweit leiden immer noch ca. 850 Millionen Menschen an chronischer Unterernährung. Das Problem ist dabei kein Phänomen das strikt auf den Afrikanischen Kontinent begrenzt ist. Vielmehr sind viele Staaten im sogenannten Globalen Süden von Hunger und Mangelernährung bedroht. Die globale Unterernährung stellt aber nur eine Seite der Medaille dar. Spätestens seit dem Jahr 2008 ist das Problem der weltweiten Bevölkerungsgesundheit gleichermäßen dramatisch. Nach Schätzungen von diversen Organisationen sind ca. 1,4 Milliarden Menschen bergewichtig und knapp eine halbe Milliarde Menschen fettleibig (BMI > 30). Nimmt man all diese Zahlen zusammen, sind ca. 30% der Weltbevölkerung entweder unter oder über dem Wert, was zu starken Belastungen für Gesundheit, Wirtschaft etc. führt. Die Lösung für beide Probleme ist der Wandel zu nachhaltigen Ernährungssystemen. Der vorliegende Sammelband setzt sich mit diesen Themen auseinander und stellt sie in den Kontext einer neuen Großen Transformation.

*Neurodegenerative Diseases* Sachchida Nand Rai, Sandeep Singh, Santosh Kumar Singh, 2024-12-02. This reference book provides a comprehensive overview of models and therapeutic approaches against neurodegenerative diseases including Parkinson's disease, Alzheimer's disease, Huntington's disease, and amyotrophic lateral sclerosis. It explores models based on the chemical induced, cellular, genetic, transgenic, and 3D organoid approaches in neurodegenerative diseases. The book also reviews advantages and limitations of these models in designing treatment strategies. Additionally, the book covers the emerging field of bioinformatics and its application in modeling various neurodegenerative diseases. Towards the end, the book highlights the role of holistic management, precision medicine, OMICS, and gene therapy against neurodegenerative disorders. It examines the implications and significance of stem cells therapy in translational models of neurodegenerative diseases. This book is an invaluable resource for researchers, neuroscientists, and neurosurgeons for getting in-depth information on the neurodegenerative models and therapeutic approaches. Key Features: Provides a comprehensive overview of neurodegenerative diseases and their models; Examines the limitations associated with modeling neurodegenerative diseases; Presents novel treatment strategies for Alzheimer's disease using cellular models; Reviews the importance of 3D organoid models for therapeutic approaches in Parkinson's disease; Covers modeling techniques in understanding prion diseases; Explores the role of genetic models in understanding Huntington's disease.

**Rhizomicrobiome Dynamics in Bioremediation** Vivek Kumar, 2021-04-19. Intensified agrarian and industrial activity has led to earth's soil and groundwater resources becoming polluted with hazardous materials. Bioremediation delivers a green technology using dynamics of living organisms, typically bacteria, fungi, microalgae, and also plants to eliminate contaminants from ecosystem. This biological know-

how is not only cost effective compared to conventional physico chemical approaches but also very successful and is being employed in the field This book focuses on important issues for several critical and common environmental pollutants resulting in a compilation having recent updates on the bioremediation applications towards green and clean environment This volume also describes updates on various novel approaches of bioremediation including nanotechnology rhizomicrobiome technology composting metagenomics and biosurfactants based bioremediation This volume is a resource for researchers environmentalists professionals and policy makers

### **Emerging Trends in Agri-nanotechnology**

Harikesh Bahadur Singh,Sandhya Mishra,Leonardo Fernandes Fraceto,Renata de Lima,2018-04-27 The science of nanotechnology the manipulation design and engineering of devices at the atomic and molecular scale is starting to be applied to many disciplines including aspects of agriculture and crop science This book opens with a brief history of nanotechnology in agriculture Applications are then examined in detail including nanopesticides nanosensors nanofertilizers and nanoherbicides Topics covered include the biosynthesis of nanoparticles through microbes plants and other biotic agents the ecological consequences of their delivery into the environment examining effects and toxicity on soil soil biota and plants safety issues an overview of the global market for nanotechnology products and the regulation of nanotechnology in agriculture The book concludes with speculations on what the future holds for the technology The book has been written by an international group of researchers and experts from over 12 countries with experience across a wide range of issues relating to the industry This book will be of use to a wide range of researchers and professional scientists in the agricultural sector academia and industry including microbiologists chemical engineers geneticists plant scientists and biochemists

*Yearbook of International Organizations 2014-2015 (Volume 3)* Union Of International Associations,Union of International Associations,2014-08-20 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and acitvities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 3 allows readers to locate organizations by subjects or by fields of activity and specialization and includes an index to Volumes 1 through 3

### **Conventional and Organic Farming: A Comprehensive Review through the Lens of Agricultural Science**

Victor M. Shorrocks,2017-12-18 Organic farming comes with many connotations of natural wholesome healthy superior environmentally friendly and sustainable But just what is the scientific evidence behind the claims of healthier food and better farming systems made by the organic movement Using peer reviewed literature the latest studies and a rigorous investigation of claims made by opponents of conventional farming the author provides an even handed and scientifically objective review of the contributions of organic farming to human health crop yields the environment and agriculture from a

global perspective The aim is to separate out the marketing spin the claims of one camp or another and political ideologies to provide a straightforward appraisal of both the benefits and exaggerated claims of organic farming The approach taken is to present the evidence in the form of data study results and presentation of source material for the claims made by conventional and organic and leave the reader to make their own judgements on the validity of the case for organic over conventional farming The book also addresses a fundamental question in modern farming organic agriculture s ability to feed the world in the face of a growing population and growing demand for meat and provides a timely scientific comparison of the practices relative yields and benefits of organic versus conventional agriculture The ways conventional farming has progressed from hunter gatherer days and possible future developments are discussed Conventional and Organic Farming is an ideal book for agricultural policy makers researchers and academics as well as agricultural students conventional and organic farmers 5m Books

**Food Toxicity and Safety** Debapriya Mondal,Mohammad Mahmudur Rahman,2025-05-31 This book comprises 15 chapters contributed by scientists and experts from countries including Australia India Peru USA UK and Zimbabwe and is divided into four sections Section I of the book deals with the challenges in food safety such as chemical contaminants nanoparticles used in agriculture in form of fertilizers and pesticides microplastics organic pollutants like perfluoro octane sulphonate and consist of six chapters Section II is dedicated to heavy metal contamination in food such as high cadmium exposure and associated health risks and contains four chapters Section III includes four chapters that highlight arsenic contamination in the food and food chain system a serious threat to food security and human health To summarize and provide a way forward a chapter has been included in Section IV The book is an informative source of reference to the researchers and scientists working in the area of food science and technology food regulators policymakers producers healthcare providers educators consumers and other stakeholders

### **Handbook of Parkinson's Disease**

**Mechanisms** Rosario Moratalla,Mario Gustavo Murer,2025-12-01 The Handbook of Parkinson s Disease Mechanisms offers an integrated overview of the fundamental research devoted to understanding its causes and mechanisms highlighting recent advances and clinical significance With a strong focus on cellular and animal model studies this book also examines the etiology pathophysiology epidemiology and underlying symptoms of Parkinson s disease Written with an interdisciplinary approach this book provides thorough research that will be of interest to researchers clinicians and graduate students interested in neurodegenerative diseases Reviews etiology and pathophysiology of Parkinson s disease Integrates clinical and fundamental research Includes cellular organoid and animal models of PD Discusses dopamine neuroinflammation lysosomal function tau Lewy bodies gut brain axis and more

### **Neural Dynamics of Neurological Disease** Christopher A.

Shaw,2017-02-03 The emerging understanding of age related neurological disorders suggests that notions of a single causal gene toxin being responsible is likely incorrect Neurological disorders probably arise due to a unique intersection of multiple genetic and toxic factors combined with additional contributions of age stage of development immune system actions and

more This perspective leads to the view that rather than reflecting only one pathway to end state disease each is a spectrum disorder and every individual case is therefore unique Neural Dynamics of Neurological Disease argues for a fundamental rethinking of what we think we know about neurological disorders how they arise and progress and crucially what might be done to cure them It first introduces the concept of neural dynamics of neurological disease then examines various diseases and gives examples of the interplay of elements such as neural systems cell types and biochemical pathways that can contribute to disease The concluding chapters point the way to how the emerging notion of neurological disease as a dynamic process may lead to more successful treatment options Providing a cross disciplinary approach to understanding the origin and progression of neurological disease Neural Dynamics of Neurological Disease is a timely and valuable resource for neuroscientists researchers and clinicians

*The Pesticide Detox* Jules N. Pretty,2005 First Published in 2004 Routledge is an imprint of Taylor Francis an informa company

Bibliography of Agriculture with Subject Index ,1966 Extension Bulletin ,1989

*Arizona Agricultural Statistics* ,2005 *Pesticide Residues in Food 2016* Food & Agriculture Organization,2017-04-27

The pesticides diazinon glyphosate and malathion were evaluated at the Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Core Assessment Group on Pesticide Residues JMP held in May 2016 This followed a recommendation that they be re evaluated due to public health concerns identified by the International Agency for Research on Cancer IARC and the availability of a number of new studies The meeting reviewed epidemiological toxicological and related data in order to establish acceptable daily intakes ADIs and acute reference doses ARfDs of the pesticides for humans It also estimated dietary exposures both short and long term to the pesticides reviewed and performed related dietary risk assessments

**Biological & Agricultural Index** ,1980

*Education Statistics* ,2017 **Casarett & Doull's Toxicology: The Basic Science of Poisons, 9th Edition** Curtis D. Klaassen,2018-11-23

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