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## A comparative study between biopesticides and conventional pesticides

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**Abstract-** Conventional pesticides are synthetic chemicals (or agrochemicals). They generally work by directly killing or inactivating pests. Biopesticides, on the other hand, are naturally occurring bioactive organisms or substances. Biopesticides may directly kill harmful organisms, or they may work indirectly by interfering with the reproduction or simply repelling pests with substances they don't like. Most biopesticides do not provide a "quick kill", but rather suppress pests so that they can be managed over time. They also tend to decompose quickly and leave fewer residues on food and in the environment. Conventional Pesticides refers to synthetic substances as active ingredient while in biopesticides the active ingredient is derived from natural materials, such as, plants, fungi, entomopathogenic virus, nematodes, etc. Pesticides are chemical compounds that are used to kill pests.

**Key words:** Biopesticides, Conventional pesticides, chemical pesticides, agrochemical, bioactive

### INTRODUCTION

A pesticide is a mixture of chemical or biological substances that are used to reduce, kill or protect against the ill effects of insects.<sup>1</sup> It is used extensively in the field of agriculture to save trees and plants. Fertilizers help in plant growth while insecticides act as a protection against pests. An insecticide is a substance or mixture of substances used to prevent, destroy, remove or reduce insect damage.<sup>2</sup> Pesticides are chemical substances (phosphamidon, lindane, fluoropyrifos, heptachlor, malathion, etc.) or organisms such as viruses, bacteria, weeds, insect-eating insects, fish, birds, and mammals.

In 1994, we established the Biopesticides and Pollution Prevention Division in the Office of Pesticide Programs to facilitate the registration of biopesticides.<sup>3</sup> Since

biopesticides tend to pose fewer risks than conventional pesticides, Environment Protection Agency (EPA) generally requires much less data to register a biopesticide than to register a conventional pesticide. New biopesticides are often registered in less than a year, compared with an average of more than three years for conventional pesticides.<sup>4</sup>

While biopesticides require fewer data and are registered in less time than conventional pesticides, EPA always conducts rigorous reviews to ensure that registered pesticides will not harm people or the environment.<sup>5</sup> For EPA to be sure that a pesticide is safe, the Agency requires that registrants submit the results of a variety of studies and other information about the composition, toxicity, degradation, and other characteristics of the pesticide.

### CLASSIFICATION OF PESTICIDES

#### A. Conventional (chemical) Pesticides

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# Pesticides A Comparative Study Of Indust

**Lawrence K. Wang, Mu-Hao Sung  
Wang, Yung-Tse Hung**



## **Pesticides A Comparative Study Of Indust:**

*Pesticides Industry in India* Uma K. Srivastava, N. T. Patel, 1990      **Technological Innovations & Applications in Industry 4.0** Dinesh Seth, Sushant S. Satputaley, Minhaj Ahemad A. Rehman, Amit R. Bhende, 2025-01-27 The conference offered an international forum for discussion and exchange of knowledge on opportunities and challenges related with all facets and aspects of technological innovations applications in Industry 4.0 its challenges and way ahead The objective of this international conference was to provide a platform for policy makers academicians and researchers to share their experiences and knowledge by presentation of scientific advances made in the field of Industry 4.0      **Pesticides Documentation Bulletin**, 1968-12      *Toxicology Research Projects Directory*, 1980-04      **Industrial Biotechnology** Indu Shekhar Thakur, 2013-12-30 The last five decades have witnessed a tremendous upsurge in the amount of xenobiotic compounds in the environment by industrial activities some of them being highly toxic recalcitrant with high bio accumulating and bio magnification properties Whilst biotechnology is the development of products or processes using plants animals or micro organisms Environmental Biotechnology is the multidisciplinary integration of sciences and engineering to utilise the huge biochemical potential of microorganisms and plants for the sustenance of resources Recent advances in biotechnology have driven forward the harnessing of micro organisms and plants to help and protect our fragile environment and formation of ecofriendly products The aim of this book is to determine the processes and utilization of raw materials in the industries formation and release of pollutants air water and soil in the environment effect and impact of the pollutants on biotic and abiotic components of the environment and finally identifying the physical chemical biological and alternating methods for treatment of pollutants in the industrial effluents Efforts have also been made to identify the methods for bioconversion and recovery of products from the effluents by biotechnological methods      **Toxicity Bibliography**, 1977      **Bibliography of Agriculture**, 1975      **Impact of Government Regulation on the Development of Chemical Pesticides for Agriculture and Forestry**, 1981      **Green Pesticides Handbook** Leo M.L. Nollet, Hamir Singh Rathore, 2017-06-13 Green pesticides also called ecological pesticides are pesticides derived from organic sources which are considered environmentally friendly and are causing less harm to human and animal health and to habitats and the ecosystem Essential oils based insecticides started have amazing features This book gives a full spectrum of the whole range of essential oil based pesticides that may be used in pest control It discusses the uses and limitations including the recent advances in this area It describes the metabolism and mode of action and provides the present status of essential oil based pesticide residues in foodstuffs soil and water      *Green Technologies for Industrial Contaminants* Riti Thapar Kapoor, Rachana Singh, 2025-04-01 Green Technologies for Industrial Contaminants is essential for understanding innovative eco friendly solutions to combat the pressing challenges of pollution and water scarcity faced by our planet Increasing population environmental pollution rampant industrialization and scarcity of water are all major global threats Significant

amounts of pollutants are released from various industries such as textile paper leather rubber plastic cosmetics food pharmaceuticals and petroleum industries A lack of proper treatment facilities has proliferated the discharge of effluents enriched with toxic pollutants such as dyes heavy metals organic compounds and other hazardous chemicals in the environment Water is a natural treasure and availability of safe and clean water is essential for human health ecosystems and sustainable development The continuous decline of the groundwater table and deterioration of water quality are matters of serious concern The presence of color in water poses a serious threat to the environment affecting light penetration and reducing photosynthesis and dissolved oxygen Most dyes and heavy metals are toxic in nature which may cause skin irritation allergies respiratory disease mental disorders tumors and cancer Different physical and chemical methods are available for the treatment of industrial effluents but due to their high cost low efficiency and sludge generation these methods are not feasible at large scale The synergistic approaches of biochar and microbes have an edge over other techniques including being eco friendly cost competitive and efficient achieving complete mineralization and showing low waste production Therefore the combined application of biochar and microbes for pollutant degradation can be a viable option as it is a low cost and sustainable effluent treatment system for industries Green Technologies for Industrial Contaminants provides useful information and applications of microbes bacteria algae fungi and biochar for the removal of contaminants from industrial effluent and reutilization of waste sludge in the production of biofuel and bioenergy

**Auditing in the Food Industry** M Dillon, C Griffith, 2001-07-12 The food industry faces an unprecedented level of scrutiny Consumers are not only concerned with the safety and quality of food products but also the way in which they are produced At the same time the food industry has developed new ways of assuring appropriate standards for its products and their methods of production developing systems such as TQM and HACCP to identify and manage key steps in production These new methods require new skills in auditing Auditing in the food industry provides an authoritative guide to the range of standards and the auditing skills they demand Part one sets the scene with an introductory chapter reviewing developments in standards affecting the food industry There then follows chapters on how retailers audit their suppliers and how governments have moved from a traditional inspection role to one of regulatory verification with its emphasis on auditing the robustness of a business's own systems for managing safety and quality Part two examines the key aspects of safety and quality A first chapter reviews the ways retailers assess supplier HACCP systems There is then a chapter reviewing TQM systems that provides a context for a discussion of auditing techniques for HACCP based quality systems A final chapter looks at standards governing the analytical methods used in safety and quality control Part three considers newer standards that are becoming increasingly important in the food industry There are chapters on benchmarking an organisation against others as a way of improving performance auditing the impact of food processing operations on the environment and auditing organic food processing Auditing in the food industry is a valuable guide to the range of standards

facing the food industry and the ways it can audit and thus improve the quality of its performance      Industrial Wastewater Reuse Maulin P. Shah, 2023-06-19 This book identifies emerging technologies that allow the reuse and regeneration of industrial wastewater with innovative and applied approaches throughout the wastewater treatment cycle Today it is increasingly clear that treated urban wastewater whose reuse has become an important component of long term water management worldwide is a key source of chemical pollutants and emerging biological concerns Current water quality guidelines for reclaimed wastewater predominantly address the risks associated with the presence of microbial organisms and chemical parameters such as biological oxygen demand chemical oxygen demand E coli and worms and in some cases heavy metals however they are insufficient for the full evaluation of risks The global growth of population is concentrated in urban areas therefore most of the challenges and solutions related to wastewater reside in urban treatment plants Unless wastewater management and wastewater governance processes are significantly improved within a decade it is likely that our societies will face severe and prolonged water insecurity and urban floods The application of sustainable technologies can eliminate or minimize micro contaminants in wastewater Several organizations focus on the potential impacts to humans and their environments by wastewater reuse This book gathers new research and reviews work from researchers and scientists to identify the main barriers and limitations that will need to be overcome so that wastewater reuse strategies gain more momentum and will be adopted more efficiently worldwide The book is designed for engineers scientists and other professionals who are seeking an excellent introduction to and basic knowledge of the principles of environmental bioremediation technologies      **Energy Abstracts for Policy Analysis** ,1988      *Environmental Protection Research Catalog: Indexes* Smithsonian Science Information Exchange,1972      *EPA Publications Bibliography* United States. Environmental Protection Agency,1985      *EPA Publications Bibliography Quarterly Abstract Bulletin* United States. Environmental Protection Agency,1999-10      NIOSH Publications Catalog National Institute for Occupational Safety and Health,National Institute for Occupational Safety and Health. Division of Standards Development and Technology Transfer,1987 Cumulative catalog of all National Institute for Occupational Safety and Health NIOSH numbered publications health hazard evaluations HHE and technical assistance TA reports contract reports and other educational and training materials      Handbook of Pesticide Toxicology Robert Krieger,2001-10-17 This revision of the highly acclaimed Hayes Handbook of Pesticide Toxicology is an in depth scientific sourcebook concerning use properties effects and regulation of pesticides This edition is a comprehensive examination by international experts from academia government research and the private sector of critical issues related to the need use and nature of chemicals used in modern pest management This two volume set contains up to date information on a broad range of topics which establishes context of pesticide use and outlines how they are scientifically evaluated Experts from a variety of disciplines contribute to this work Some provide a fresh look at existing information and others look ahead at issues that are central to understanding pesticide use and toxicology in modern

integrated pest management Establishes a context for evaluation of pesticide use in agriculture residential pest control and public health described Important discussion of strategies for pesticide risk assessment All major classes of pesticide considered Different routes of exposure critically evaluated Current regulatory issues defined Emerging issues concern topics of special relevance in the future Agents reviewed by experts from academia government research and the private sector

**Hayes' Handbook of Pesticide Toxicology**, 2010-02-15 The Handbook of Pesticide Toxicology is a comprehensive two volume reference guide to the properties effects and regulation of pesticides that provides the latest and most complete information to researchers investigating the environmental agricultural veterinary and human health impacts of pesticide use Written by international experts from academia government and the private sector the Handbook of Pesticide Toxicology is an in depth examination of critical issues related to the need for use of and nature of chemicals used in modern pest management This updated 3e carries on the book s tradition of serving as the definitive reference on pesticide toxicology and recognizes the seminal contribution of Wayland J Hayes Jr co Editor of the first edition Presents a comprehensive look at all aspects of pesticide toxicology in one reference work Clear exposition of hazard identification and dose response relationships in each chapter featuring pesticide agents and actions All major classes of pesticide considered Different routes of exposure critically evaluated

**Waste Treatment in the Biotechnology, Agricultural and Food Industries** Lawrence K. Wang, Mu-Hao Sung Wang, Yung-Tse Hung, 2023-11-30 This book and its sister book Volume 1 of the Handbook of Environmental Engineering HEE series have been designed to serve as a mini series covering waste treatment in biotechnology agricultural and food industries It is expected to be of value to advanced undergraduate and graduate students to designers of sustainable biological resources systems and to scientists and researchers The aim of these books is to provide information on bio environmental engineering and to serve as a basis for advanced study or specialized investigation of the theory and analysis of various agricultural and natural resources systems Volume 2 covers topics on a application of secondary flotation filtration and coagulant recycle for improvement of a pulp mill primary waste treatment facility b management of solid and hazardous wastes c microbial enzymes for wastewater treatment d a multi criteria approach to appropriate treatment technology selection for water reclamation e chemicals used in agriculture hazards and associated toxicity issues f biochar for adsorptive removal of pharmaceuticals from environmental water g treatment of palm oil mill effluent h treatment and management of solid waste by incineration i technologies for removal of volatile organic compounds VOC from industrial effluents and or potable water sources j treatment of healthcare waste

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