



PERSISTENT ORGANIC POLLUTANTS (POPs)

Persistent organic pollutants (POPs) are chemicals of global concern

1) Long-Range Transport

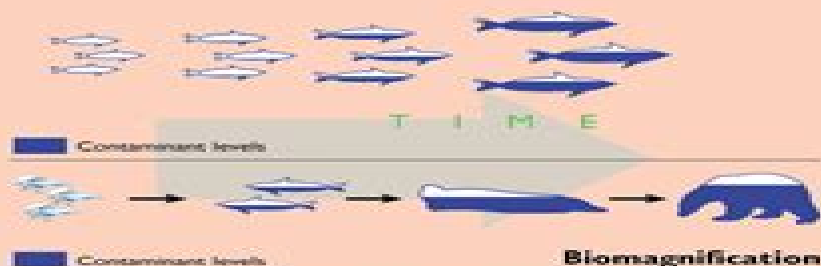


2) Persistence in the Environment



3) Bio-magnify & Bio-accumulate

Bioaccumulation



4) Have significant negative effects on human health & the environment.



Cancer



Immunity Suppression



Heart Disease



STOCKHOLM CONVENTION

The environmental treaty that aims to eliminate POPs.

POP EXAMPLES

Dichlorodiphenyltrichloroethane (DDT): insecticide

- DDT is banned for agricultural use in India
- It continues to be used for fumigation against mosquitoes

Endosulfan: insecticide

Polychlorinated biphenyls: resistant to extreme temperature; used widely in electrical equipment

Dioxins: toxic by-products produced when organic matter is burned

Persistent Organic Pollutants Persistent Organic Pollutants

Marco A. Olsen

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape with a white center, partially overlapping the bar.

Persistent Organic Pollutants Persistent Organic Pollutants:

Persistent Organic Pollutants in the Environment Narendra Kumar, Vertika Shukla, 2021-09-30 Persistent Organic Pollutants POPs are toxic degradation resistant bio accumulative and display wide spatial distribution which has been linked to mutagenic reproductive and immunological disorders In Stockholm Persistent Organic Pollutants POPs are toxic degradation resistant bio accumulative and display wide spatial distribution which has been linked to mutagenic reproductive and immunological disorders At the Stockholm Convention a global treaty was signed to minimize and ultimately eliminate the release of POPs into the environment The present compilation regarding POPs focusses on the sources atmospheric behavior terrestrial and aquatic food chain transfer human exposure and fate aspects of this important class of chemicals including topical issues like temporal trends in contamination Furthermore the chemical characteristics of individual POPs are also addressed Features Provides better understanding of Persistent Organic Pollutants POPs and how they affect humans and ecosystems Includes genesis categories environmental fate and behavior and associated hazards Reviews analytical techniques involved in detection human exposure and management Discusses environmental dynamics of POPs Focuses on the comprehensive account of PCDD Fs PCBs PAH and other organochlorine POPs such as DDT lindane and dieldrin This book is aimed at researchers professionals and graduate students in Life Science Occupational Health and Safety Chemical Engineering and Environmental Engineering Persistent Organic Pollutants (POPs) M. Nageeb

Rashed, 2022 **Persistent Organic Pollutants** Heidelore Fiedler, 2002-11-27 Since the mid 1990s legal action to eliminate persistent organic pollutants POPs has started resulting in a global Convention on POPs the Stockholm Convention and a regional Protocol under the Convention on Long Range Transboundary Air Pollution UN ECE LRTAP Convention POPs are characterized by long half lives persistence in the environment they undergo long range transport accumulate in the environment and in biota and they are toxic The combination of these characteristics makes them a threat at the global level This book makes the reader familiar with the goals of these two conventions lays out characteristics of these compounds presents results from case studies and addresses inventories levels in humans and the environment as well as technologies to destroy them **The Fate of Persistent Organic Pollutants in the Environment** Ebru Mehmetli, Bogdana

Koumanova, 2007-12-14 Persistent organic pollutants POPs are organic compounds of natural or anthropogenic origin that resist photolytic chemical and biological degradation They are characterized by low water solubility and high lipid solubility resulting in bioaccumulation in fatty tissues of living organisms These properties of unusual high persistence and semi volatility coupled with other characteristics have resulted in the presence of POPs all over the world even in regions where they have never been used With the evidence of long range transport of these substances to regions the international community has now at several occasions called for urgent global actions to reduce and eliminate releases of these chemicals Many countries have already banned or severely restricted the production and use of the twelve POPs in recent decades Yet

they remain a serious problem around the world Because these chemicals have the ability to travel long distances from their original sources relying on national level action alone is ultimately a futile effort This book employs a science based approach to identify and take action against POPs and additionally provides access to technical information on POPs The book will be an overview of the existing POP monitoring activities and programs *Persistent Organic Pollutants* Stuart

Harrad,2009-11-19 Persistent Organic Pollutants POPs are toxic resistant to degradation bioaccumulative and display wide spatial distribution They accumulate in humans and wildlife and have been linked to cancer as well as reproductive and immunological disorders In 2001 a global treaty on POPs was agreed to minimise and ultimately eliminate the release of POPs into the environment The Stockholm Convention lists 12 groups of chemicals and as of late 2008 a further 12 chemicals are under consideration for inclusion This book addresses all of these chemicals but focuses particularly on currently listed POPs that are still of major concern e g polychlorinated biphenyls PCBs as well as new and emerging POPs that have been the subject of an explosion of scientific interest in the last decade i e brominated flame retardants BFRs and perfluorinated chemicals PFCs Other chapters address the challenges posed by the presence of POPs in the developing world how the properties of chiral POPs can provide unique insights into their environmental sources fate and behaviour and issues arising from the presence of POPs in urban and indoor environments Persistent Organic Pollutants provides a much anticipated reference source for a wide audience including academics industrial scientists and regulators **Persistent Organic**

Pollutants (POPs) ,2022-04-13 Persistent organic pollutants POPs are toxic organic compounds that resist environmental degradation through biological chemical and photolytic processes Many POPs are currently used as pesticides pharmaceuticals solvents and industrial chemicals Because of their persistence POPs bioaccumulate and adversely affect human health and the environment Persistent Organic Pollutants POPs Monitoring Impact and Treatment deals with several aspects of POP monitoring occurrence impact and treatment technologies The book is divided into two sections containing nine chapters that address such topics as the effect of POPs on wildlife their role in hepatocarcinogenesis treatment of POPs in wastewater and much more *The Foundation for Global Action on Persistent Organic Pollutants* ,2002 Persistent

Organic Pollutants Claes Bernes,1998 **Protocol on Persistent Organic Pollutants (POPs) Implementation Act** United States. Congress. Senate. Committee on Environment and Public Works,2004 *Persistent Organic Pollutants in Asia* An Li,Shinsuke Tanabe,Guibin Jiang,John P. Giesy,Paul S.K. Lam,2011-07-29 Large amounts of data obtained through environmental monitoring of persistent organic pollutants POPs in 10 Asian countries and Australia have been compiled and explored using principles of environmental chemistry toxicology and risk assessment This book also includes descriptions and discussions of current governmental policies monitoring and surveillance programs history of manufacturing and applications emission sources impacts on human health and cross boundary transport of POPs in these countries Compiles up to date sources distributions transport and fates of highly concerned persistent organic pollutants POPs Presents exploratory

examinations of the data guided by the principles of environmental chemistry toxicology and risk assessment Includes important context and insight regarding government policies monitoring and surveillance programs history of manufacturing and applications emission sources impact on human health and cross boundary transport of POPs Fact Sheets of 22 Persistent Organic Pollutants (POPs) Under Stockholm Convention Ram Charitra Sah,Keshab Raj Joshi,2011 Persistent Organic Pollutants Kanchan Kumari,2021-12-21 Persistent Organic Pollutants POPs are chemicals that resist environmental degradation and cause deleterious effects on the environment and human wellbeing Once released into the environment they can travel long distances and persist for longer duration This book highlights the complex area of POPs in simple language and deals with the fundamentals of the chemicals their sources and impacts on human health The book also unfolds several other aspects like new and advanced analytical detection methods gaps in management effectiveness of the Stockholm convention and the role of the global monitoring plan on POPs for crucial and holistic understanding about POPs It also investigates how to minimize the impact of POPs and the major gaps and challenges in sound management of POPs With its comprehensive approach this book is an indispensable source of knowledge for those studying and working to mitigate the effect of POPs in the environment Persistent Organic Pollutants (POPs): Analytical Techniques, Environmental Fate and Biological Effects ,2015-03-02 This book focuses on those organic chemicals that are regulated by the Stockholm Convention on Persistent Organic Pollutants POPs as well as organic chemical with the attributes of being persistent bioaccumulative and toxic to ecosystem and human beings criteria used by the Stockholm Convention for screening POP candidates Because of the unfavourable properties of POPs numerous research efforts have been directed toward investigating their input sources fate and effects with the help of continuously improving analytical technologies The contributors to this book provide an integrated assessment of existing data which will benefit both the scientific and management communities in planning further research projects and or pollution control measures Comprehensive overview of recent advances in analyzing persistent organic pollutants POPs Covers input sources fate and biological effects of POPs Contains essential information for environmental management **Implementing the Stockholm Convention on Persistent Organic Pollutants** National Research Council,Policy and Global Affairs,Science and Technology for Sustainability Program,2007-02-12 This report summarizes a workshop Strengthening Science Based Decision Making Implementing the Stockholm Convention on Persistent Organic Pollutants held June 7 10 2004 in Beijing China The presentations and discussions summarized here describe the types of scientific information necessary to make informed decisions to eliminate the production and use of Persistent Organic Pollutants POPs banned under the Stockholm Convention sources of information scientifically informed strategies for eliminating POPs elements of good scientific advice such as transparency peer review and disclosure of conflicts of interest and information dealing with POPs that decision makers need from the scientific community including next steps to make such science available and ensure its use on a continuing basis **Persistent Organic Pollutants**

Stephen Kudom Donyinah, 2019 This book consists of four technical articles and an introduction that discusses the characteristics of persistent organic pollutant POP behavior covering organic matter in lake sediments degradation pathways of POPs and specific pesticides and the adaptation mechanisms of bacteria The contributing articles are from authors with different backgrounds and specialties from reputable organizations and institutions The book analyzes the effects of POPs and their characteristic behavior in different environments Readers will hopefully gain interesting knowledge from this book

Global Contamination Trends of Persistent Organic Chemicals Bommanna G. Loganathan, Paul Kwan-Sing

Lam, 2011-08-09 Environmental pollution by man made persistent organic chemicals POCs has been a serious global issue for over half a century POCs are prevalent in air water soil and organisms including wildlife and humans throughout the world They do not degrade and cause long term effect in organisms Exposure to certain POCs may result in serious environ

Analysis of the Stockholm Convention on Persistent Organic Pollutants Marco A. Olsen, 2003 This work analyzes the

Stockholm Convention on Persistent Organic Pollutants POPs prepared under the auspices of the United Nations Environment Programme Chemical Division The treaty was adopted at the Conference of Plenipotentiaries in Stockholm on 24 May 2001 and was open for signature at United Nations Headquarters in New York until 22 May 2002 It is the first international legal instrument to focus attention on the dangers of persistent organic pollutants chemicals that are commonly used as pesticides in agriculture and to control insects causing diseases like malaria At the same time these chemical substances are carcinogenic mutagenic and teratogenic posing grave risks to human and animal health and the environment The treaty is a comprehensive global attempt to reduce the risks to human health and the environment from the release of these persistent organic pollutants currently known as the dirty dozen This analysis Chronicles the Stockholm Convention negotiations discusses the Stockholm treaty s intricacies and analyzes its thirty articles Explains the fundamentals of POPs their chemical properties toxicology and common and or historical uses Discusses the history of POPs contamination how the modern era of synthetic pesticide production began and its effect on today s world Concentrates on the science and chemistry of the twelve chemicals addressed in the Stockholm Convention and examines the politics evolving around them Provides explicit examples of the harmful effects that these chemicals have on human and animal populations and environment Looks at the role of non governmental organizations NGOs in negotiating the treaty Includes full text of the Stockholm Convention with annexes

Persistent Organic Pollutants Stuart Harrad, 2012-10-21 Persistent Organic Pollutants POPs continue to be the subject of concern amongst the public as well as the scientific and policy making communities These concerns are exemplified by the international efforts coordinated by the United Nations Environment Programme and the Economic Commission for Europe Whilst the ultimate origin of this concern is the adverse effects of persistent organic pollutants in both humans and wildlife there are other factors involved In particular whilst ambient concentrations of POPs in air and water present little direct hazard via inhalation and ingestion respectively their propensity

for transfer through the food chain means that species at the top of the ecological pyramid including humans can be exposed to concentrations of concern via their diet Furthermore their ability to undergo long range atmospheric transport means that they represent a truly cross boundary problem for mankind Persistent Organic Pollutants focuses on the sources atmospheric behaviour terrestrial and aquatic food chain transfer and human exposure and fate aspects of this important class of chemicals Other topical issues are addressed namely temporal trends in contamination their transport to polar regions and the significance of the former Warsaw Pact nations of Central and Eastern Europe as both a global reservoir and source of POPs Whilst the main focus is on PCDD Fs PCBs and PAH other organochlorine POPs such as DDT lindane and dieldrin are covered Persistent Organic Pollutants also provides up to date detailed and authoritative coverage required by academics environmental consultants and policy makers Sufficient introductory material is also included to be of relevance to final year undergraduates Masters and PhD students in Environmental Science Chemistry *An Overview of Persistent Organic Pollutants in the Environment* Convention on Long-Range Transboundary Air Pollution (1979). Task Force on Persistent Organic Pollutants,1994 **Persistent Organic Pollutants (POPS)**. Canada. Department of Indian Affairs and Northern Development. Contaminants Division,2003

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