



IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

VOLUME 84

**Some Drinking-water Disinfectants
and Contaminants, including Arsenic**



LYON, FRANCE
2004

Some Drinkingwater Disinfectants And Contaminants Including Arsenic

Sandy Cairncross, Sir Richard Feachem

Some Drinkingwater Disinfectants And Contaminants Including Arsenic:

Some Drinking-water Disinfectants and Contaminants, Including Arsenic ,2004 Some Drinking-water Disinfectants and Contaminants, Including Arsenic IARC Working Group on the Evaluation of Carcinogenic Risks to Humans, International Agency for Research on Cancer, 2004 A working group of 23 experts from 13 countries met in Lyon to evaluate the evidence for carcinogenicity of arsenic mostly naturally occurring as a contaminant of drinking water and of the water disinfectant chloramine The working group also evaluated or re evaluated four chlorination by products found in drinking water namely chloral hydrate di and trichloroacetic acids and 3 chloro 4 dichloromethyl 5 hydroxy 2 5H furanone also known as MX High level exposure to arsenic in drinking water occurs in some regions such as China Latin America Bangladesh and West Bengal The Working Group reviewed epidemiological studies of human cancer mainly ecological studies in Taiwan and Chile and several case control and cohort studies in relation to arsenic in drinking water Arsenic in drinking water primarily inorganic as arsenate and to a lesser extent arsenite was evaluated as carcinogenic to humans Group 1 on the basis of sufficient evidence for an increased risk for cancer of the urinary bladder lung and skin Studies on inorganic arsenic in experimental animals provided limited evidence for its carcinogenicity but sufficient evidence was found in experimental animals for the carcinogenicity of dimethylarsinic acid an organic form of arsenic which produced urinary bladder tumours in rats and lung tumours in mice after oral administration Human Papillomaviruses ,2007 This ninetieth volume of the IARC Monographs on the Evaluation of Carcinogenic Risks to Humans considers human papillomaviruses HPVs which were evaluated by a previous Working Group IARC 1995 The monograph in the present volume incorporates new data that have become available during the past decade HPVs represent the most common infectious agents that are transmitted sexually throughout the world the major risk factors are behaviors associated with sexual activity Although most infections are asymptomatic and are cleared within a period of 2 years genital HPV infection can lead to clinical disease including anogenital warts cervical neoplasia cervical cancer and other anogenital cancers The risk for persistence of infection and progression of the more than 40 genital HPV types to grade 3 cervical intraepithelial neoplasia CIN3 and cancer differs widely Persistent infection with carcinogenic HPVs occurs in virtually all cases of cervical cancer Previous evaluations of HPVs have classified types 16 and 18 as carcinogenic to humans group 1 types 31 and 33 as probably carcinogenic to humans Group 2A and some types other than 16 18 31 and 33 as possibly carcinogenic to humans Group 2B At that time the evaluation of types 16 and 18 was based on the strong association between infection with these HPVs and cervical cancer For types 31 and 33 the association was less strong The new epidemiological data reviewed in the present volume strongly support and further confirm the previous evaluation of types 16 and 18 and provide new evidence for other HPVs This information which includes strong evidence of carcinogenicity at sites other than the cervix supports new evaluations for several other HPV types in addition to those mentioned above Since the Working Group was convened in 2005 important innovations in HPV prophylaxis have occurred

and these needed to be included in this volume To date two prophylactic vaccines have been developed and used in large multicentric trials This prophylactic vaccination is expected to reduce the incidence of HPV related genital diseases However the benefits of prophylactic vaccines in a broad public health perspective will be achieved only if such vaccines can be provided to those groups of women for whom access to cervical cancer screening services is most problematic Therefore the development of second generation vaccines that are expected to be cheaper easier to deliver and to provide T cell response against pre existing HPV infections is highly desirable Arsenic in Drinking Water and Food Sudhakar

Srivastava,2019-08-08 Arsenic contamination poses a major environmental problem especially in Southeast Asian countries like Bangladesh and India Threatening the health of millions of people due to arsenic s toxicity and carcinogenicity the major routes of arsenic exposure for humans are either through drinking water or crops Rice is the crop most affected by arsenic owing to its cultivation in major arsenic contaminated areas biogeochemical factors in the soil during rice growth and specific features of rice that enable it take up more arsenic than other crop plants This book addresses the problem of arsenic by pursuing a holistic approach It presents the status quo in different parts of the world North and South America Europe Asia etc and provides essential information on food related arsenic exposure risks for humans and possible preventive and curative measures for tackling arsenic poisoning It covers the arsenic contamination status of rice rice based products other vegetables fishes mushrooms and other foods with a special focus on rice arsenic interactions The mechanisms of arsenic uptake translocation and distribution in plants and grains are also explained In closing the book reviews a variety of prospective agronomic and biotechnological solutions to the problem of arsenic accumulation in rice grains The book is intended for a broad audience including researchers scientists and readers with diverse backgrounds including agriculture environmental science food science environmental management and human health It can also be used as an important reference guide for undergraduate and graduate students university faculties and environmentalists Disinfection

By-Products and Human Health Steve E. Hrudey,Jeffrey W. A. Charrois,2012-04-30 Disinfection By Products and Human Health is based on contributions from speakers who participated in May 2011 workshops on Disinfection By Products DBPs and Human Health at Ozwater 11 in Adelaide Australia or at an AWA sponsored workshop at the Curtin Water Quality Research Centre Perth Australia The contributions are prepared to facilitate communication with practitioners rather than researchers making use of overview illustrations rather than dense text or data tables Each chapter concludes with up to 5 key findings that are take home messages for practitioners Disinfection By Products and Human Health is aimed specifically at drinking water professionals engineers chemists and public health professionals working on the front lines of drinking water issues where they must encounter actual day to day issues of risk management concerning DBPs in relation to all the other regulatory and water quality issues they must manage Although a topic this complex is certainly not amenable to simplistic explanations this book aims to provide drinking water professionals with a pragmatic assessment of the current

evidence and emerging issues concerning DBPs and public health Disinfection By Products and Human Health is an essential practical and accessible guide for drinking water professionals engineers chemists and public health professionals Editors Steve E Hrudey Professor Emeritus Analytical Environmental Toxicology University of Alberta Canada Jeffrey W A Charrois Director and Associate Professor Curtin Water Quality Research Centre Curtin University of Technology Australia Steve Hrudey is professor emeritus in analytical and environmental toxicology in the University of Alberta s Faculty of Medicine Dentistry He spent 13 years as a cabinet appointed member of the Alberta Environmental Appeals Board the last four as chair and was the first non lawyer to hold this position During this period he served on 36 public hearing panels 19 as chair of the panel In addition he has testified before senate committees in Canada and the Legislative Council in Western Australia Hrudey has served on a number of high profile expert panels including the Research Advisory Panel to the Walkerton Inquiry 2000 2002 the Expert Panel on Safe Drinking Water for First Nations 2006 the Technical Advisory Committee to the B C Minister of Health on turbidity and microbial risk in drinking water 2007 2008 as chair the Expert Advisory Panel on Water Quality for Washington D C to the U S Army Corps of Engineers 2009 2011 and chair of the Royal Society of Canada Expert Panel on Environmental and Health Impacts of Canada s Oil Sands Industry 2009 2010 He has also co authored or edited nine books including the widely acclaimed book inspired by the Walkerton tragedy Safe Drinking Water Lessons from Recent Outbreaks in Affluent Nations IWA Publishing 2004 He has written 26 book chapters 19 expert panel reports 163 refereed journal articles 15 science discussions six media op eds and 73 conference proceeding papers Hrudey is the 2012 winner of the American Water Works Association A P Black Research Award for contributions to water science and water supply This book is sponsored by Australian Water Association AWA *Disinfection By-products in Drinking Water* M.N.V.

Prasad,2020-02-18 Disinfection Byproducts in Drinking Water Detection and Treatment presents cutting edge research on how to understand the procedures processes and considerations for detecting and treating disinfection by products from drinking water swimming pool water and wastewater The book begins with an overview of the different groups of Disinfection Byproducts DBPs such as Trihalomethanes THM Halo acetic acids and Haloacetonitrile HAN This coverage is quickly followed by a clear and rigorous exposition of the latest methods and technologies for the characterization occurrence formation transformation and removal of DBPs in drinking water Other chapters focus on ultraviolet visible spectroscopy electron spin resonance and gas chromatography mass spectrometry Researchers will find a valuable resource to a breath of topics for DBP detection and treatment including various recent techniques such as microfiltration nanofiltration membrane and nanotechnology Explains the latest research in detection treatment processes and remediation technologies Includes sampling analytical and characterization methods and approaches Covers cutting edge research including membrane based technologies nanotechnology treatment technologies and bioremediation treatment technologies Provides background information regarding contamination sources *Encyclopedia of Environmental Health* ,2019-08-22

Encyclopedia of Environmental Health Second Edition Six Volume Set presents the newest release in this fundamental reference that updates and broadens the umbrella of environmental health especially social and environmental health for its readers There is ongoing revolution in governance policies and intervention strategies aimed at evolving changes in health disparities disease burden trans boundary transport and health hazards This new edition reflects these realities mapping new directions in the field that include how to minimize threats and develop new scientific paradigms that address emerging local national and global environmental concerns Represents a one stop resource for scientifically reliable information on environmental health Fills a critical gap with information on one of the most rapidly growing scientific fields of our time Provides comparative approaches to environmental health practice and research in different countries and regions of the world Covers issues behind specific questions and describes the best available scientific methods for environmental risk assessment

Water Quality Management Vijay P Singh, Shalini Yadav, Ram Narayan Yadava, 2018-01-12 This book comprises two parts The first part deals with some aspects of wastewater treatment encompassing various types of technologies for treating wastewater and evaluation The technologies biochemical as well as chemical including evaluation of technologies are also discussed Part 2 is on solid waste management It includes both municipal and industrial waste management The book is of interest to researchers and practitioners in the field of water resources hydrology environmental resources agricultural engineering watershed management earth sciences as well as those engaged in natural resources planning and management Graduate students and those wishing to conduct further research in water and environment and their development and management find the book to be of value

Environmental Exposures and Human Health Challenges Papadopoulou, Paraskevi, Marouli, Christina, Misseyanni, Anastasia, 2019-03-15 Environmental health is an area with significant developments and noteworthy challenges that expand into various disciplines medicine and public health sociology and communications technology policymaking and legislation Due to the massive amount of health related issues additional literature involving environmental health is required to improve the wellbeing of citizens worldwide Environmental Exposures and Human Health Challenges provides interdisciplinary insights into concepts and theories related to environmental exposures and human health impacts via the air water soil heavy metal exposure and other chemical toxins The book also addresses inequalities and environmental injustices in relation to environmental exposures and health impacts Covering topics such as health policies pollution effects and heavy metal exposure this publication is designed for public health professionals preventive medicine specialists clinicians data scientists environmentalists academicians practitioners researchers and students

Cancer Epidemiology and Prevention David Schottenfeld, Joseph F. Fraumeni Jr., 2006-08-24 This much anticipated Third Edition provides a comprehensive presentation of the global burden and patterns of cancer occurrence along with new developments in our understanding of cancer causation and prevention Special attention is given to epidemiologic approaches that incorporate molecular biomarkers based on genomic and other emerging technologies

providing new insights into the role of genetic predisposition and gene environment interactions in cancer induction In addition new chapters are included on social class disparities in cancer incidence and mortality the role of obesity and physical inactivity in cancer etiology the potential effects of electromagnetic fields and radiofrequency radiation and the principles of cancer chemoprevention The textbook is organized into five sections Basic Concepts The Magnitude of Cancer The Causes of Cancer Cancer by Tissue of Origin Cancer Prevention and Control In this new edition Drs David Schottenfeld and Joseph F Fraumeni Jr have enlisted three distinguished Associate Editors Drs Jonathan Samet of Johns Hopkins University Graham Colditz of Harvard University and Alice Whittemore of Stanford University

Handbook of Advanced Approaches Towards Pollution Prevention and Control Rehab O Abdel Rahman, Chaudhery Mustansar

Hussain, 2021-02-02 Handbook of Advanced Approaches towards Pollution Prevention and Control Volume One Conventional and Innovative Technology and Assessment Techniques for Pollution Prevention and Control condenses all relevant information on pollution prevention and control in a single source This handbook Volume One of Two covers the principles of pollution prevention and control technologies recent advances in pollution prevention control technologies and their sustainability modernization in pollution prevention and control technologies for future and next generation pollution prevention This book is an indispensable resource for researchers and academic staff in chemical and process engineering safety engineering environmental engineering biotechnology and materials engineering Provides in depth information on the principles and advances in pollution prevention and control practices Discusses emerging technologies and processes for advanced pollution prevention and control Presents developments on the use of the assessment models as tools to support the research and applications of different technologies and processes Provides history fundamentals state of the art and future trends Edited by expert team of world class editors

Reversibility of Chronic Disease and Hypersensitivity, Volume 4 William J. Rea, Kalpana D. Patel, 2017-11-22 Reversibility of Chronic Disease and Hypersensitivity Volume 4 The

Environmental Aspects of Chemical Sensitivity is the fourth of an encyclopedic five volume set describing the basic physiology chemical sensitivity diagnosis and treatment of chronic degenerative disease studied in a 5x less polluted controlled environment This text focuses on treatment techniques strategies protocols prescriptions and technologies Distinguishing itself from previous works on chemical sensitivity it explains newly understood mechanisms of chronic disease and hypersensitivity involving core molecular function The authors discuss new information on ground regulation system genetics the autonomic nervous system and immune and non immune functions The book also includes the latest technology and cutting edge techniques numerous figures and supporting research

Evaluating Water Quality to Prevent Future Disasters, 2019-05-24 Evaluating Water Quality to Prevent Future Disasters volume 11 in the Separation Science and

Technology series covers various separation methods that can be used to avoid water catastrophes arising from climate change arsenic lead algal bloom fracking microplastics flooding glyphosphates triazines GenX and oil contamination This

book provides a valuable resource that will help the reader solve their potential water contamination problems and help them develop their own new approaches to monitor water contamination Highlights reasons for potential water catastrophes Provides separation methods for monitoring water contamination Encourages development of new methods for monitoring water contamination

Handbook of Water Purity and Quality Satinder Ahuja,2009-07-17 This work provides those involved in water purification research and administration with a comprehensive resource of methods for analyzing water to assure its safety from contaminants both natural and human caused The book first provides an overview of major water related issues in developing and developed countries followed by a review of issues of sampling for water analysis regulatory considerations and forensics in water quality and purity investigations The subsequent chapters cover microbial as well chemical contaminations from inorganic compounds radionuclides volatile and semi volatile compounds disinfectants herbicides and pharmaceuticals including endocrine disruptors as well as potential terrorist related contamination The last chapter describes the Grainger prize winning filter that can remove arsenic from water sources and sufficiently protect the health of a large number of people Covers the scope of water contamination problems on a worldwide scale Provides a rich source of methods for analyzing water to assure its safety from natural and deliberate contaminants Describes the filter that won the 1 million Grainger prize and thereby highlighting an important approach to remediation

Environmental Health Risk IV C. A. Brebbia,2007 Health problems related to the environment have become a major source of concern all over the world The health of the population depends upon good quality air water soil food and many other factors The aim of society is to establish measures that can eliminate or considerably reduce factors hazardous to the human environment to minimize the associated health risks The ability to achieve these objectives is greatly dependant on the development of suitable experimental modelling and interpretive techniques which allow a balanced assessment of the risk involved as well as suggesting ways in which the situation can be improved The interaction between environmental risk and health is often complex and can involve a variety of social occupational and lifestyle factors This emphasizes the importance of considering an interdisciplinary approach Containing papers presented at the Fourth International Conference on The Impact of Environmental Factors on Health The topics discussed will be of interest to a wide readership including health specialists in government and industry as well as researchers involved within the broad area of environmental health risk Featured topics include Risk Analysis Air Pollution Water quality issues Electromagnetic Fields Food contamination Occupational Health Remediation Social and Economic Issues Housing and Health Radiation Fields Education and Training Accident and man made risks

Chemistry of Advanced Environmental Purification Processes of Water Erik Sogaard,2014-04-11 Chemistry of Advanced Environmental Purification Processes of Water covers the fundamentals behind a broad spectrum of advanced purification processes for various types of water showing numerous applications through worked examples Purification processes for groundwater soil water reusable water and raw water are examined where they are in use full

scale as a pilot approach or in the laboratory This book also describes the production of ceramic particles nanochemistry and materials for the creation of filtration systems and catalysts that are involved Uses chemistry fundamentals to explain the mechanisms behind the various purification processes Explains in detail process equipment and technical applications Describes the production of ceramic particles and other new materials applicable to filtration systems Includes worked examples

Metals and Related Substances in Drinking Water Prosun Bhattacharya, Ingegerd Rosborg, Arifin Sandhi, Colin Hayes, Maria Joao Benoliel, 2011-11-25 Part of Metals and Related Substances in Drinking Water Set buy all five books together to save over 30% Metals and Related Substances in Drinking Water comprises the proceedings of COST Action 637 METEAU held in Kristianstad Sweden October 13 15 2010 This book collates the understanding of the various factors which control metals and related substances in drinking water with an aim to minimize environmental impacts Metals and Related Substances in Drinking Water Provides an overview of knowledge on metals and related substances in drinking water Promotes good practice in controlling metals and related substances in drinking water Helps to determining the environmental and socio economic impacts of control measures through public participation Introduces the importance of mineral balance in drinking water especially when choosing treatment methods Shares practitioner experience The proceedings of this international conference contain many state of the art presentations by leading researchers from across the world They are of interest to water sector practitioners regulators researchers and engineers

Arsenic Toxicity Narayan Chakrabarty, 2015-08-05 The most talked about metalloid in the modern world arsenic affects the liver kidney and lungs leads to cardiovascular diseases cancer and diabetes and may cause blindness with long time exposure With naturally occurring arsenic boosted by mining and other industrial processes contaminating soil and drinking water arsenic toxicity is a maj

Advances in Water Resources Management for Sustainable Use Pankaj Kumar Roy, Malabika Biswas Roy, Supriya Pal, 2021-04-24 This book presents the innovative ideas and technical expertise for the sustainable solution in the field of water resources It covers various topics on sustainable water resources management under climate change where researchers and professionals have shared their experience innovative ideas issues recent trends and future directions in field of water resources engineering science and technology This book culminates the importance of achieving the ways towards water security and espouse targets and measures that will allow the end user to meet this challenge in conjunction It is a compendium of research articles pertaining to the mitigation of water crisis surface and groundwater management watershed management and modelling case studies related to wetland vulnerability water pollution water quality extreme climate hazards and others issues and its sustainable diminution through ingenious ideas and technologies that will incur valuable information to the stakeholders in the society Given its scope this book will be useful for the researchers and professionals

Environmental Health Engineering in the Tropics Sandy Cairncross, Sir Richard Feachem, 2018-11-12 This fully updated third edition of the classic text widely cited as the most important and useful book for health engineering and

disease prevention describes infectious diseases in tropical and developing countries and the effective measures that may be used against them The infections described include the diarrhoeal diseases the common gut worms Guinea worm schistosomiasis malaria Bancroftian filariasis and other mosquito borne infections The environmental interventions that receive most attention are domestic water supplies and improved excreta disposal Appropriate technology for these interventions and also their impact on infectious diseases are documented in detail This third edition includes new sections on arsenic in groundwater supplies and arsenic removal technologies and new material in most chapters including water supplies in developing countries and surface water drainage

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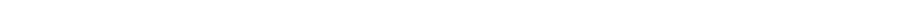
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