

**Drinking Water
Health Advisory:**

MUNITIONS

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Office of Drinking Water Health Advisories**



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Drinking Water Health Advisory Munitions

Mark Steyvers



Drinking Water Health Advisory Munitions:

Drinking Water Health Advisory Welford C. Roberts, William R. Hartley, 1992-06-16 The United States Environmental Protection Agency U S EPA Office of Water OW initiated the Health Advisory Program in 1978 to provide information and guidance to individuals or agencies concerned with potential risk from drinking water contaminants for which no national regulations currently exist Since that time over 100 Health Advisories HAs have been published in final form for inorganic organic and microbial contaminants This volume contains HAs for munitions chemicals developed as part of a Memorandum of Understanding between the U S EPA and the Department of the Army To develop each HA the authors reviewed toxicological data for each chemical and presented the relevant studies to allow an evaluation of the data without continued reference to the primary documents Each HA has undergone critical internal review by the OW Toxicology Review Panel EPA program offices the EPA Reference Dose RfD Committee the EPA Carcinogen Risk Assessment and Verification Enterprise CRAVE Committee and the Army Medical Department for munitions chemicals only Finally the HAs were reviewed by an external panel of experts in toxicology and risk assessments Drinking Water Health Advisory Munitions will be an important reference document for all DOD DOE hazardous waste sites drinking water professionals and academic libraries Drinking Water Health Advisory: Munitions WC Roberts (Ed), 1992 *Drinking Water Health Advisory* William R. Hartley, Welford C. Roberts, Brian J. Commons, 1994 **Reviews of Environmental Contamination and Toxicology** George W. Ware, 2013-11-11 Reviews of Environmental Contamination and Toxicology provides detailed review articles concerned with aspects of chemical contaminants including pesticides in the total environment with toxicological considerations and consequences **Current Catalog** National Library of Medicine (U.S.), 1993-04 **Summary and Evaluation for White Phosphorus Remediation** Yilda B. Rivera, Trudy J. Olin, R. Mark Bricka, 1996 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1993 Drinking Water Advisory William R. Hartley, Welford C. Roberts, Brian J. Commons, 1994 **Toxicity of Military Unique Compounds in Aquatic Organisms**, 1998 Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 1994 United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies, 1993 **Forensic and Environmental Detection of Explosives** Jehuda Yinon, 1999-09-09 Forensic and Environmental Detection of Explosives is the first comprehensive book on the detection of explosives It combines the two main fields of application Forensic detection of explosives the detection of hidden explosives in airfreight luggage vehicles and on suspects Environmental detection of explosives detecting on site explosives in soil and water of contaminated areas and the detection of landmines Dr Jehuda Yinon is a world renowned expert on the analysis of explosives and has served as consulting expert during the Oklahoma bombing trial where his previous book Modern Methods and Applications in Analysis of Explosives was quoted by both the prosecution and defense experts This new book complements the author s previous book on the analysis of explosives It

includes the following features Classifications of explosives Explanations of the basic terms related to the detection of explosives Vapor detection methods Probing radiation methods Tagging of explosives Systems integration and performance testing Detection of explosives in contaminated areas Detection of landmines This book is an ideal reference book for those working in forensic and law enforcement agencies concerned with the detection of hidden explosives as well as for environmental scientists dealing with explosives decontamination The book is also recommended as a text book for graduate students in analytical environmental and forensic science

Re-evaluation of Drinking-Water Guidelines for Diisopropyl Methylphosphonate National Research Council, Commission on Life Sciences, Board on Environmental Studies and Toxicology, Committee on Toxicology, Subcommittee on the Toxicity of Diisopropyl Methylphosphonate, 2000-11-25 Diisopropyl Methylphosphonate DIMP is a groundwater contaminant at the U S Army s Rocky Mountain Arsenal in Colorado DIMP is a by product created from the manufacture and detoxification of the nerve agent GB which the arsenal produced from 1953 to 1957 For awhile the Army and the State of Colorado disagreed upon the appropriate drinking water contaminant guideline for DIMP A drinking water guideline of 600 micrograms per liter was established by the U S Environmental Protection Agency EPA in 1989 but the State of Colorado promulgated a lower guideline of 8 micrograms per liter The significant difference between the two suggested values arose from the fact that both sides used different studies to determine their values Colorado used one generation reproductive toxicity study in mink whereas EPA used a subchronic toxicity study in dogs To resolve the disagreement a two generation reproductive study in mink was conducted The Army asked the National Research Council NRC to independently evaluate the 1997 study and re evaluate the drinking water guideline for DIMP This task was assigned to the Committee on Toxicology which established the Subcommittee on the Toxicity of Diisopropyl Methylphosphonate a multidisciplinary group of experts The subcommittee evaluated the two generation reproductive study as well as other studies relevant to the task Data on the use of mink as a predictive model in toxicology were also reviewed Re Evaluation of Drinking Water Guidelines for Diisopropyl Methylphosphonate is the subcommittee s report which shows that neither party was corrected in their DIMP guidelines The report includes the subcommittee s evaluation and recommendations concerning the topic

Energetic Materials and Munitions Adam Stewart Cumming, Mark S. Johnson, 2019-05-13 Provides a hands on approach to demilitarization and environmental aspects of energetic materials and munitions This book gives an overview of the environmental impact of the production use and cleanup of energetic materials and munitions It provides scientists engineers environmental specialists and users with the understanding of environmental issues for munitions and of the ways to improve design and manage potential risks It covers the various aspects of how chemical properties influence fate transport and toxicity of new formulations and prescribes tools for reducing or alleviating environmental risks In addition it discusses pyrotechnics and the problem of dealing with munitions underwater Chapters in Energetic Materials and Munitions Life Cycle Management Environmental Impact and

Demilitarization look at demilitarization in general as well as in the future Topics covered include logistics costs and management life cycle analysis and management and greener munitions Another introduces readers to the One Health approach in the design of sustainable munition compounds Following that readers are taught about land assessment for munitions related contamination in military live fire training The book also examines the development and integration of environmental safety and occupational health information Brings together in one source expertise and in depth information on the current and future state of how we handle the production use and demilitarization of explosives and weaponry A handy reference for experienced practitioners as well as for training young professionals in the field Every chapter contains real life examples and proposes future directions for the field Energetic Materials and Munitions Life Cycle Management Environmental Impact and Demilitarization is an important book for explosives specialists pyrotechnicians materials scientists military authorities safety officers health officers and chemical engineers

Evaluation of Alternative Technologies for Disposal of Liquid Wastes from the Explosive Destruction System National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Review and Evaluation of the Army Non-Stockpile Chemical Materiel Disposal Program, 2002-01-20 Chemical warfare materiel CWM encompasses diverse items that were used during 60 years of efforts by the United States to develop a capability for conducting chemical warfare Non Stockpile CWM NSCWM is materiel not included in the current U S inventory of chemical munitions and includes buried materiel recovered materiel components of binary chemical weapons former production facilities and miscellaneous materiel Because NSCWM is stored or buried at many locations the Army is developing transportable treatment systems that can be moved from site to site as needed Originally the Army planned to develop three transportable treatment systems for nonstockpile chemical materiel the rapid response system RRS the munitions management device MMD and the explosive destruction system EDS This report supplements an earlier report that evaluated eight alternative technologies for destruction of the liquid waste streams from two of the U S Army s transportable treatment systems for nonstockpile chemical materiel the RRS and the MMD This report evaluates the same technologies for the destruction of liquid waste streams produced by the EDS and discusses the regulatory approval issues and obstacles for the combined use of the EDS and the alternative technologies that treat the EDS secondary waste streams Although it focuses on the destruction of EDS neutralent it also takes into consideration the ability of posttreatment technologies to process the more dilute water rinses that are used in the EDS following treatment with a reagent

Water-resources Investigations Report ,1996

The Cumulative Book Index ,1994 A world list of books in the English language

Resources and References Donna S. Kocurek, Bayle Woodside, 1995-12-31 This guide book provides references and resources for the complex field of hazardous waste and hazardous materials management The book is divided into general topics such as air quality industrial wastewater pollution prevention and risk assessment under hazardous waste management and chemical hazards emergency planning

and hazard communication under hazardous materials management Each individual section includes a list of annotated bibliographies of the most recent books by major publishers as well as established standard references Following the annotated titles are additional references of books and documents by publishers technical associations and governmental agencies primarily the U S Environmental Protection Agency In general only references from 1986 onward are included since the technology and regulations affecting hazardous waste and materials are constantly evolving Additional resources included in the book are video tapes for training and instruction information services and databases libraries agency contacts technical journals and a list of publishers and ordering information This book will be a useful reference to professionals in the environmental field who need an extensive but concise source of technical information and contacts The book will be a valuable addition to individual libraries and will fill a current reference void in university libraries and technical libraries in industry and government At present there are very few technical bibliographies in the field and none has covered topics related to hazardous materials and hazardous waste as extensively as this book

U.S. Geological Survey Toxic Substances Hydrology Program U.S. Geological Survey Toxic Substances Hydrology Program. Technical Meeting,1996 **U.S. Geological Survey Toxic Substances Hydrology Program** David William Morganwalp,U.S. Geological Survey Toxic Substances Hydrology Program. Technical Meeting,David A. Aronson,1996 Proceedings of the 52nd Purdue Industrial Waste Conference1997 Conference Purdue Research Foundation,2020-02-06 The 52nd Purdue Industrial Waste Conference showcased 18 sessions on subjects such as biological aspects physical chemical aspects oil and petroleum wastes management and reuse strategies international activities and pollution prevention This book compiles the work of nearly 200 international experts covering the latest practical techniques advanced research new methods actual operating data and important case studies

Drinking Water Health Advisory Munitions Book Review: Unveiling the Power of Words

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