



CHLORINATED SOLVENTS



Chlorinated Solvents A Forensic Evaluation

R E Hester, R M Harrison



Chlorinated Solvents A Forensic Evaluation:

Chlorinated Solvents Robert D Morrison, Brian L Murphy, 2015-11-09 Environmental forensics is emerging and evolving into a recognized scientific discipline with numerous applications especially regarding chlorinated solvents This unique book provides the reader with a concise compilation of information regarding the use of environmental forensic techniques for age dating and identification of the source of a chlorinated solvent release Concentrating on the five commonly encountered chlorinated solvents perchloroethylene trichloroethylene methyl chloroform carbon tetrachloride and CFC 113 forensic opportunities applicable to each are presented including the use of stabilizers manufacturing impurities surrogate chemicals and physical measurements and degradation products as diagnostic indicators Detailed historical chronology of the applications of the solvents and specific chapters devoted to dry cleaning and vapor degreasing equipment are included as are generic forensic approaches Forming a basis for further ideas in the evolution of environmental forensic techniques Chlorinated Solvents will be an indispensable reference tool for researchers regulators and analysts in the field

Environmental Forensics R E Hester, R M Harrison, 2008-06-27 Environmental forensics is a combination of analytical and environmental chemistry which is useful in the court room context It therefore involves field analytical studies and both data interpretation and modelling connected with the attribution of pollution events to their causes Recent decades have seen a burgeoning of legislation designed to protect the environment and as the costs of environmental damage and clean up are considerable not only are there prosecutions by regulatory agencies but the courts are also used as a means of adjudication of civil damage claims relating to environmental causes or environmental degradation As a result is the increasing number of prosecutions of companies who have breached regulations for environmental protection and in civil claims relating to harm caused by excessive pollutant releases to the environment Such cases can become extremely protracted as expert witnesses provide their sometimes conflicting interpretations of environmental measurement data and their meaning It is in this context that environmental forensics is developing as a specialism leading to greater formalisation of investigative methods which should lead to more definitive findings and less scope for experts to disagree Now a significant subject in its own right at least one journal devoted to the field and a number of degree courses have sprung up As a result of the topicality and rapid growth of the subject area is the publication of this book the 26th volume in the highly acclaimed Issues in Environmental Science and Technology Series This volume contains authoritative articles by a number of the leading practitioners across the globe in the environmental forensics field and aims to cover some of the main techniques and areas to which environmental forensics are being applied The content is comprehensive and describes a number of the key areas within environmental forensics topics covered by the authors include Source identification issues Microbial techniques Metal contamination and methods of assigning liability The use of isotopes to determine sources and their applications Molecular biological methods Hydrocarbon fingerprinting techniques Oil chemistry and key compound identification The emerging role

of environmental forensics in groundwater pollution Additionally the volume considers specific pollutants and long lived pollutants of groundwater such as halocarbons which have presented particular problems and which are described in some depth as well as the way in which chemical degradation processes can lead to compositional changes which provide valuable information The book provides a comprehensive overview of many of the key areas of environmental forensics written by some of the leading experts in the field It will be both of specialist use to those seeking expert insights into the field and its capabilities as well as of more general interest to those involved in both environmental analytical science and environmental law

Risk, Regulatory, and Monitoring Considerations Godage B. Wickramanayake, 2000 Regulatory Perspectives and Decision Making Advances in Site Characterization Environmental Data Management Geostatistics and GIS Advances in Analytical and Detection Techniques Risk Based Analyses for Remediation Human Health Ecological Risk Assessment Technical Impracticability Long Term Monitoring and Optimization Innovative Monitoring and Control Systems

Forensic Hydrology, 2007 **IARC Monographs on the Evaluation of Carcinogenic Risks to Humans**, 1988 California Water Law & Policy, 2001 **Environmental Litigation**, 2006 **Southwest Hydrology**, 2006 **The National Directory of Expert Witnesses**, 2003 **Environmental Reports and Remediation Plans** Randall L. Erickson, Robert D. Morrison, 1995 The ability to perform a critical review for an environmental report is an essential skill required by US lawyers and consultants This study explains what to look for in these reports and how to interpret them It provides definitions and explains terminology shows how to determine if the report is accurate and describes how to identify improper assumptions It also illustrates how to tell if a report meets legal requirements such as evidentiary standards

Toxicological Profile for 1,1,1-trichloroethane, 1995 **EPA Publications Bibliography**, 1997 Contaminated Soil, Sediment & Water, 2001 **Proceedings of the International Symposium on the Forensic Aspects of Controlled Substances**, 1989 March 28 April 1 1988 Forensic Science Research and Training Center FBI Academy Quantico Virginia T p

JurisPro Expert Witness Directory 2002, 2002 Annual Meeting Association of Engineering Geologists, 2000 Index to Legal Periodicals & Books, 2002 **Casarett & Doull's Toxicology: The Basic Science of Poisons, Eighth Edition** Curtis Klaassen, 2013-04-25 The most trusted all in one overview of the biomedical and environmental aspects of toxicology NOW more complete up to date and in full color The world's leading and most authoritative textbook on poisons has more to offer students toxicologists and pharmacologists than ever before Now in full color and thoroughly revised the eighth edition of Casarett Doull's TOXICOLOGY The Basic Science of Poisons not only delivers a comprehensive review of the essential components of toxicology it offers the most up to date revealing and in depth look at the systemic responses of toxic substance available anywhere Combined with the latest thinking by the field's foremost scholars plus solid coverage of general principles modes of action and chemical specific toxicity this landmark text continues to set the standard for toxicology references NEW to the Eighth Edition FULL COLOR design to allow for a clearer interpretation of the basic

components of toxicology featured throughout the text EXPANDED tables illustrations and other visuals are updated with state of the art standards that makes this edition even more current and relevant DVD with image bank features all tables and illustrations from the text in presentation ready format NEW CHAPTERS include Toxic Effects of Calories and Toxic Effects of Nanoparticles **Is All Research Created Equal?** Pamela Mary Franklin, 2002 *Chemical Abstracts*, 2002

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Chlorinated Solvents A Forensic Evaluation Introduction

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