

The Handbook of  
**Environmental  
Chemistry**

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Volume 3 Part F, Anthropogenic Compounds

**Detergents**

Volume Editor: N.T. de Oude



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# Detergents The Handbook Of Environmental Chemistry

**Uri Zoller**



## **Detergents The Handbook Of Environmental Chemistry:**

Handbook of Detergents - 6 Volume Set Uri Zoller, 2008-11-23 With contributions from experts and pioneers this set provides readers with the tools they need to answer the need for sustainable development faced by the industry The six volumes constitute a shift from the traditional mostly theoretical focus of most resources to the practical application of advances in research and development With con *Handbook of Detergents, Part B* Uri Zoller, 2004-08-30 The second installment of the multivolume Handbook of Detergents deals with the potential environmental impact of detergents as a result of their production formulation usage consumption and disposal This volume forms a comprehensive treatise on the multidimensional issues involved and emphasizes the alignment of scientific knowledge with the relevant contemporary data and methodologies in toxicology ecotoxicology and environmental risk assessment With contributions from over 50 experts worldwide this volume discusses industry procedures involving surfactant and detergent treatments and explores global concerns centering on recent legislative and regulatory developments **Detergents** N.T. de Oude, 2013-06-29 Environmental Chemistry is a relatively young science Interest in this subject however is growing very rapidly and although no agreement has been reached as yet about the exact content and limits of this interdisciplinary subject there appears to be increasing interest in seeing environmental topics which are based on chemistry embodied in this subject One of the first objectives of Environmental Chemistry must be the study of the environment and of natural chemical processes which occur in the environment A major purpose of this series on Environmental Chemistry therefore is to present a reasonably uniform view of various aspects of the chemistry of the environment and chemical reactions occurring in the environment The industrial activities of man have given a new dimension to Environmental Chemistry We have now synthesized and described over five million chemical compounds and chemical industry produces about one hundred and fifty million tons of synthetic chemicals annually We ship billions of tons of oil per year and through mining operations and other geophysical modifications large quantities of inorganic and organic materials are released from their natural deposits Cities and metropolitan areas of up to 15 million inhabitants produce large quantities of waste in relatively small and confined areas Much of the chemical products and waste products of modern society are released into the environment either during production storage transport use or ultimate disposal These released materials participate in natural cycles and reactions and frequently lead to interference and disturbance of natural systems Handbook of Detergents, Part E Uri Zoller, 2008-10-29 An Examination of Detergent Applications The fifth volume in a six volume project penned by detergent industry experts this segment deals with the various applications of detergent formulations surfactants builders sequestering chelating agents as well as other components These applications are discussed with respect to the scope of their domestic institutional or industrial usages Special focus is given to technological advancement health and environmental concerns and the rapid changes occurring in the field within the past several years With each chapter providing the special access of a pioneering researcher this text

offers an insider's look at the most current advances      **Handbook of Detergents, Part F** Uri Zoller, Paul Sosis, 2008-11-20 This sixth part of the multi volume Handbook of Detergents focuses on the production of surfactants builders and other key components of detergent formulations including the various multi dimensional aspects and implications on detergent formulations and applications domestically institutionally in industry and agriculture with all the environmental consequences involved Thus Part F constitutes a comprehensive treatise of the multi dimensional issues relating to this industry production technology emphasizing the alignment of scientific knowledge and up to date technological and technical know how with the relevant contemporary applied practice An international effort and industry academia collaboration this volume features expert contributions focusing on the contemporary state of the art concerning the many facets of the production of detergents and surfactants Thus the Handbook of Detergents Part F Production deals with the production of anionic cationic nonionic and amphoteric surfactants key builders bleaching and whitening agents enzymes and other components of detergent formulations in different contexts gauges and related concerns and discusses various technological procedures of production processes involving the components of surfactants and detergents      **Detergents and the Environment** Milan Johann Schwuger, 1996-09-12 Offers coverage of the environmental behaviour of detergent additives focusing on physiochemical interactions with soil and sediments This text presents the current state of knowledge on recently introduced detergent additives including zeolites polycarboxylate compounds ethylene dinitrilotetraacetic acid EDTA and nitrilotriacetic acid NTA      *Handbook of Property Estimation Methods for Chemicals* Donald Mackay, Robert S. Boethling, 2000-03-29 A complete restructuring and updating of the classic 1982 Handbook of Chemical Property Estimation Methods commonly known as Lyman's Handbook the Handbook of Property Estimation Methods for Chemicals Environmental and Health Sciences reviews and recommends practical methods for estimating environmentally important properties of organic chemical      *Powdered Detergents* Michael Showell, 2017-10-06 Facilitating the development of important processes that yield increased detergents performance from smaller dosages this work examines up to date and emerging process and chemical technologies used in the formulation of compact powdered detergents It provides a survey of technological developments fundamental to powder compaction such as the replacement of traditional phosphate builders and the introduction of insoluble zeolites as particle process aids      [The Handbook of Environmental Chemistry](#) , 1992

**Laundry Detergents** Eduard Smulders, Wilfried Rähse, 2002-03-12 This monograph provides a comprehensive survey of the parameters involved in textile washing in particular the action of detergents The authors describe the physical and chemical principles of the washing process as well as the composition production and action of household and industrial detergents Furthermore products and processes in use not only in Europe but also in Japan and the USA are surveyed A special chapter is devoted to modern methods of detergent analysis Throughout the book particular emphasis is laid on ecological and toxicological aspects A discussion of the economic importance of detergents and relevant information about

textile types and washing machines complete the book This publication is not only intended for specialists in industry and academia it will also give environmental consultants journalists and other interested readers insight into the complex field of laundry detergents

**Handbook of Ecotoxicology** Peter P. Calow,2009-06-05 The Handbook of Ecotoxicology provides a readily accessible yet critical collection of information on ecotoxicological testing Now available in a single paperback volume this handbook represents excellent value Part A concentrates on techniques especially those tests used for prediction Thorough descriptions of the main tests are provided followed by critical analyses in terms of ease of handling repeatability and ecological relevance and finally an extensive bibliography citing key documents describing test methods and key papers evaluating them Part B focuses on the toxicants themselves summarising their ecological effects describing ways of predicting effects from physico chemical properties alone and describing and discussing fate models Now available as a single volume in paperback An invaluable reference resource

*Pharmaceuticals in the Environment* Klaus Kümmerer,2013-03-09 Following the success of the first edition this pioneering study of pharmaceuticals in the environment has been updated and greatly extended It includes the status of research on pharmaceuticals in soil with attention to terrestrial and aquatic environments as well as new substance categories such as tetracyclines and chinolones and the latest results concerning contamination of the environment and risk reduction

*Environmental Analysis by Electrochemical Sensors and Biosensors* Ligia Maria Moretto,Kurt Kalcher,2014-10-31 This book discusses in detail the analysis and monitoring of the most important analytes in the environmental field It also reviews the implementation realization and application of sensor designs mentioned in the first volume of this set dividing the coverage into global parameters sensors of organics and sensors of inorganics

**Handbook Of Detergents, Part C** Heinrich Waldhoff,Rudiger Spilker,2016-04-19 The scope and spectrum of methods and techniques applied in detergent analysis have changed significantly during the last decade Handbook of Detergents Part C Analysis demonstrates state of the art strategies methods and techniques for the analytical deformation of modern detergents It offers a comprehensive view of all aspects of de

Encyclopedia of Supramolecular Chemistry J. L. Atwood,Jonathan W. Steed,2004 Covers the fundamentals of supramolecular chemistry supramolecular advancements and methods in the areas of chemistry biochemistry biology environmental and materials science and engineering physics computer science and applied mathematics

*HVAC and Chemical Resistance Handbook for the Engineer and Architect* Tom Arimes,1994 The title is misleading until you check out the contents It is all about HVAC and more This compilation has organized data frequently used by Mechanical Engineers Mechanical Contractors and Plant Facility Engineers The book will end the frustration on a busy day searching for design criteria

**Surfactants and Detergents** Ashim Dutta,2022-09-28 Surfactants are ubiquitous and have applications in diverse areas including food cosmetics detergents lubricants enhanced oil recovery EOR and targeted drug delivery systems Their wide diversity of applications owes to their unique structure namely a hydrophilic and a hydrophobic group present in the same molecule

Although most surfactants used industrially are synthetic there is a growing need for natural surfactants as the latter is obtainable from renewable sources and are less toxic and highly biodegradable in contrast to their synthetic counterparts This book is a compilation of interesting articles by various experts that cover various applications of both synthetic and natural surfactants *Ullmann's Encyclopedia of Industrial Chemistry*, 2003 Microemulsions Monzer Fanun, 2008-12-15 The effective use of microemulsions has increased dramatically during the past few decades as major industrial applications have expanded in a variety of fields Microemulsions Properties and Applications provides a complete and systematic assessment of all topics affecting microemulsion performance and discusses the fundamental characteristics t **Synthetic Musk Fragrances in the Environment** Gerhard G. Rimkus, 2004-03-29 Over the last decade synthetic musk fragrances which after use enter the environment by different pathways have been described as a new group of bioaccumulative and persistent xenobiotics This book gives the first comprehensive and up to date overview of the environmental pollution caused by several different synthetic musks Written by a wide range of international experts in the field the book summarizes and critically discusses the musk levels in the different compartments of the aquatic environment in indoor ambient air house dust and in addition in human samples The aspects of biotransformation and metabolism of several synthetic musks in the environment and in animals humans are particularly emphasized Finally a provisional toxicological assessment and risk evaluation is given Many as yet unpublished data complete this survey The volume also points out the gaps the still missing toxicological and environmental data and in general the need for further research work in this field

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