



**W. Herman de Groot**

# **Sulphonation Technology in the Detergent Industry**

**Springer-Science+Business Media, B.V.**

# Sulphonation Technology In The Detergent Industry

**David Baud**



## **Sulphonation Technology In The Detergent Industry:**

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**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

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**Advances in Sulphonation Techniques** Navin G. Ashar, 2015-10-10 This book presents a complete in depth analysis for on the impact of liquid sulfur dioxide and liquid sulfur trioxide to carry out complex and difficult sulfonations as well as manufacture of sulfuric acid with a CAPEX requirement of less than half an area requirement less than one third and no emission of sulfur dioxide The processes described in this volume represents an innovative approach relevant to the current manufacturing processes of sulfuric acid sulfamic acid para toluene sulfonic acid and other sulfonated product

**Advances in Chemical Engineering** Zeeshan Nawaz, Shahid Naveed, 2012-03-23 Chemical engineering applications have been a source of challenging optimization problems in terms of economics and technology The goal of this book is to enable the reader to get instant information on fundamentals and advancements in chemical engineering This book addresses ongoing evolutions of chemical engineering and provides overview to the state of the art advancements Molecular perspective is increasingly important in the refinement of kinetic and thermodynamic modeling As a result much of the material was revised on industrial problems and their sophisticated solutions from known scientists around the world These issues were divided in to two sections fundamental advances and catalysis and reaction engineering A distinct feature of this

text continues to be the emphasis on molecular chemistry reaction engineering and modeling to achieve rational and robust industrial design Our perspective is that this background must be made available to undergraduate graduate and professionals in an integrated manner

*Industrial Arene Chemistry* Jacques Mortier, 2023-03-17 Industrial Arene Chemistry Explore the wide array of uses for aromatic hydrocarbons in this comprehensive reference Aromatics are a class of compounds normally but not exclusively organic which tend to be produced as by products of various industrial processes Their importance as petrochemical materials in themselves along with the range of inter relations between different aromatic chemicals creates a complex and opportunity filled market for aromatics Industrial Arene Chemistry provides a thorough look at the conventional techniques required to use and produce these aromatic hydrocarbons Beginning with an overview of the global aromatic market including but not limited to manufacturers markets of BTX and downstream functional aromatics aromatics derived from renewable sources and economic forecasts the book will also explore the impact shifting environmental factors will have on the future of aromatic chemistry The text further explores BTX production processes differentiated according to the raw materials used Importantly this will establish the importance and growth of the biobased chemical industry Industrial Arene Chemistry readers will also find Case studies that describe major elements of specific technologies prototyped by contributors companies as part of ongoing market development efforts Process chapters that include summaries of the conventional techniques and a more detailed discussion of recent high impact studies Recent advances in conventional aromatic reactions including alkylation acylation and carboxylation hydrogenation reduction oxidation nitration amination sulfonation and halogenation Industrial Arene Chemistry is a useful reference for chemists and chemical engineers who work with aromatics

Proceedings of the World Conference on Palm and Coconut Oils for the 21st Century Edward C. Leonard, Edward George Perkins, Arno Cahn, 1999 This book covers a wide range of food and oleochemical applications of palm and coconut oils The presentations were part of the World Conference on Palm and Coconut Oils for the 21st Century held in Bali and reflect the changes in the oleochemical industry during the past decade

**A Practical Guide to the Manufacture of Sulfuric Acid, Oleums, and Sulfonating Agents** Navin G. Ashar, Kiran R. Golwalkar, 2013-11-23 This critical volume provides practical insights on sulfuric acid and related plant design and on techniques to improve and enhance substantially the efficiency of an existing plant by means of small modifications The book provides readers with a better understanding of the state of art in sulfuric acid manufacture as well as importantly in the manufacture of value added products based on sulfur that are also associated with the manufacture of sulfuric acid Overall engineers and plant managers will be introduced to technologies for making their sulfuric acid enterprises more productive remunerative and environmentally friendly A Practical Guide to the Manufacture of Sulfuric Acid Oleums and Sulfonating Agents covers sulfuric acid and derivative chemical plant details from the nuts and bolts level to a holistic perspective based on actual field experience The book is indispensable to anyone involved in implementing a sulfuric acid or related chemical plant

**Second World Conference on Detergents** A. R. Baldwin, 1987      **Anionic Surfactants** Helmut W. Stache, 1995-09-13

This work presents a comprehensive survey of important anionic surfactants. It delineates current manufacturing technologies, methods of analysis, practical applications, environmental behaviour, and the physicochemical and toxicological properties of surfactants and their related products. The uses of anionic surfactants in the cleaning, cosmetic, textile, leather, food, petroleum, metalworking, and paper industries are encompassed.      **Toxicology of Contact Hypersensitivity** Ian

Kimber, Thomas Maurer, 1996-02-07. An analysis of allergic contact dermatitis, a common occupational health problem affecting between 5-15% of the workforce. This book considers the condition from the perspective of the toxicologist rather than the dermatologist.      **Kirk-Othmer Encyclopedia of Chemical Technology, Volume 23** Kirk-Othmer, 2006-11-10

The fifth edition of the Kirk Othmer Encyclopedia of Chemical Technology builds upon the solid foundation of the previous editions which have proven to be a mainstay for chemists, biochemists, and engineers at academic, industrial, and government institutions since publication of the first edition in 1949. The new edition includes necessary adjustments and modernization of the content to reflect changes and developments in chemical technology.      **The Complete Technology Book on Soaps (2nd Revised Edition)** NIIR Board of Consultants & Engineers, 2016-04-08. Soap is the traditional washing compound made from oil, fats, and caustic alkali. It is an item of daily necessity as a cleaning agent. There are few specialty soaps like the washing soaps, castile soaps, sandal soap, specially flavored soaps, medicated soaps, toilet soaps, and baby soaps. Population growth, especially in households with children, has a proportional impact on the growth of the manufacturing sector of the industry. The soap industry is vivacious, varied, creative, and tricky and has the prospective to provide a gratifying career. With increasing popularity, there has been an increase in potential competitors, but it still has the opportunity of further exploitation. Today, with an increase in disposable incomes all around the world, demand for these products is expected to increase because consumers are moving up towards premium products. With increasing awareness of hygienic standards, the market for the soap is growing at a rate higher than 8% annually. People have become more creative in trying to find new ways in which they can make soap, either for domestic use or commercial purposes. This book will provide all the basic facts and information you need to get started. You will be able to slowly build your way up to completely master the art of soap making. The book contains processes, formulae, photographs of plant machinery, with supplier's contact details, addresses of raw material suppliers, and providing information regarding manufacturing methods of different washing and toilet soaps. Some of the fundamentals of the book are raw material, oil and fats, fatty acids, manufacture of soap products, technology of soap manufacturing, various formulations of soaps, soap perfumery, management of soap factories, analytical methods. This book will be a mile stone for its readers who are new to this sector. It will also find useful for professionals, entrepreneurs, those studying and researching in this important area.

**Encyclopedia of Chemical Technology: Sugar to thin films** Raymond Eller Kirk, 1991. This work contains a library of information for the chemical industry. The 4th edition has undergone a complete revision with the inclusion of many new

subjects which reflect the growth in chemical technology through the 1990s      **American Book Publishing Record** ,1991  
    **Subject Guide to Books in Print** ,1993      *Advanced Composites Technologies* Society for the Advancement of  
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