

# Sulphonation Technology In The Detergent Industry

Chemicals for the Detergent Industry Sulphonation Technology in the Detergent Industry Recent advances in the detergent industry Surfactants and Chemicals for the Detergent Industry Sulphonation Technology in the Detergent Industry Detergents Handbook of Detergents, Part F Industrial Restructuring and Union Power Proceedings of the 4th World Conference on Detergents Second World Conference on Detergents Information Sources on the Soap and Detergent Industry 5th World Conference on Detergents Work Practices for Handling Enzymes in the Detergent Industry Detergents. A Glossary of Terms Used in the Detergent Industry, in English, French, Spanish, [and Other Languages.]. The Effects of Consumerism on the Detergent Industry The Modern Soap and Detergent Industry, Including Glycerol Manufacture Recent Advances in the Detergent Industry Soap and Detergent Industry Information Sources on the Soap and Detergent Industry The Soap & Detergent Industry David Richards W. Herman de Groot Society of Chemical Industry Melanie Van Lyssel W. Herman de Groot National Industrial Pollution Control Council Uri Zoller Ajeet N. Mathur Arno Cahn A. R. Baldwin United Nations Industrial Development Organization Arno Cahn Soap and Detergent Association Gerardus Carrière Neil J. Cafasso Geoffrey Martin Society of Chemical Industry Oliver Marble Gale Organización de las Naciones Unidas para el Desarrollo Industrial ICC Information Group Chemicals for the Detergent Industry Sulphonation Technology in the Detergent Industry Recent advances in the detergent industry Surfactants and Chemicals for the Detergent Industry Sulphonation Technology in the Detergent Industry Detergents Handbook of Detergents, Part F Industrial Restructuring and Union Power Proceedings of the 4th World Conference on Detergents Second World Conference on Detergents Information Sources on the Soap and Detergent Industry 5th World Conference on Detergents Work Practices for Handling Enzymes in the Detergent Industry Detergents. A Glossary of Terms Used in the Detergent Industry, in English, French, Spanish, [and Other Languages.]. The Effects of Consumerism on the Detergent Industry The Modern Soap and Detergent Industry, Including Glycerol Manufacture Recent Advances in the Detergent Industry Soap and Detergent Industry Information Sources on the Soap and Detergent Industry The Soap & Detergent Industry *David Richards W. Herman de Groot Society of Chemical Industry Melanie Van Lyssel W. Herman de Groot National Industrial Pollution Control Council Uri Zoller Ajeet N. Mathur Arno Cahn A. R. Baldwin United Nations Industrial Development Organization Arno Cahn Soap and Detergent Association Gerardus Carrière Neil J. Cafasso Geoffrey Martin*

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this book is about sulph on ation technology in its technical entirety aiming at superiority in final product quality raw material utilisation sustained plant reliability and safety minimisation of liquid effluent and gaseous emissions it is about the total quality of the operation it will be of value to engineers and chemists who are or will be involved in the practical daily operation of sulphonation plants or r d activities the book can also be used as a tool for the teacher in preparing fmal year projects in a chemical engineering curriculum the book covers sulphonation of alkylbenzenes primary alcohols alcohol ethers alpha olefins and fatty acid methyl esters with a strong emphasis on the sulphur based s air sulphonation technology the first part deals with raw material specifications hazards storage handling and physical properties in the following section the process chemistry is discussed indicating main chemical reactions undesired parallel and consecutive reactions exothermal heat effects and all other process chemistry data that are relevant for process selection and equipment design the section about the actual process equipment from the various plant equipment suppliers ballestra chemithon mazzoni meccaniche modeme and lion corp takes into account the chemical reaction engineering aspects derived from the sulphonation technology processing chemistry product quality product storage and handling product safety and physical properties are the contents of the next section the effluent handling and exhaust gas treatment of the soiair sulphonation technology are further discussed in detail

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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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