

CHAPTER 5

SOAPS AND DETERGENTS

CHAPTER 5 OBJECTIVES

- Soaps
 - Raw Materials
 - Chemistry of soaps
 - Classification of soaps
 - Manufacturing of soaps
 - Environmental aspects
- Detergents
 - Introduction and History
 - Principle groups of synthetic detergents
 - Surfactants
 - Inorganic Builders
 - Sundry Organic Builders
 - Manufacturing of Detergents

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SOAP RAW MATERIALS

- The triglycerides (or triesters of fatty acids) are the raw material for the production of soap.
- Tallow and coconut oil are the principal fatty materials in making soap.
- The palm oils, palm kernel oil, and their derivatives are used in the soap manufacture in many other parts of the world.
- Greases, obtained from hogs and smaller domestic animals, are the second most important source of glycerides of fatty acids.

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Chapter Soaps And Detergents Kfupm

Edgar Woollatt



Chapter Soaps And Detergents Kfupm:

Handbook on Soaps, Detergents & Acid Slurry (3rd Revised Edition) NIIR Board, 2013-02-09 Novelty in ideas and marketing seems to be the major subject matter of the Indian soap industry The soaps detergent and acid slurry product industry are vivacious varied creative and tricky and have the prospective to provide a gratifying career Soaps and detergents are used frequently in our daily life We use them to wash our hands and clean our clothes without ever really paying attention to how they work Beneath the plain white surface of a bar of soap lie an intriguing history and a powerful chemistry It has been said that amount of soap and detergent consumed in a country is a reliable measure of its civilizations There was a time when these products were luxury now it is a necessity Acid slurry is a sulphonation product made by sulphonation of linear alkyl benzene by oleum or SO_3 or sulphuric acid or combinations of above It is used in manufacturing of various detergents The Soap and Detergent industry is profoundly lucrative with splendid market potential as well as bright future scope In order to meet the requirement of market demand many more new units are recommended to be established on small and cottage scale Soaps and detergents are very similar in their chemical properties However there is a significant difference between them soaps are produced from natural products and detergents are synthetic or manmade The market is expected to grow at rates ranging from under 4% to around 4-5% These are very modest rates considering that the lifestyles not only of urbanites but even of well off rural folks are changing at a very high pace The analysts are expecting the industry to continue to grow in both the industrialized as well as developing nations The present book has been written keeping in view the basic difficulties of the entrepreneurs Nominal investment is required for this industry which comprises simple method of processing for manufacturing of various types of soaps detergents and acid slurry The book contains chapters on acid slurry detergent manufacturing detergents of various types principal groups of synthetic detergents inorganic components of detergents synthesis of detergents liquid detergents packaging of soaps and detergent and many more such chapters The enclosure also contains a list of suppliers of raw material overseas and list of plant and machinery suppliers overseas Fundamental information in venturing a market and the opportunity and prerequisite of the potential sector has been the superlative way to make a way into in a market How and what if correctly taken care can take you to a long way The first hand information on different types of soaps detergent and acid slurry products have been properly dealt in the book and can be very useful for those looking for entrepreneurship opportunity in the said industry Soaps and Detergents for Home Laundering United States. Agricultural Research Service. Southern Marketing and Nutrition Research Division, 1973 Soaps and Synthetic Detergents R. L. Patterson, 1958* **Soaps and Detergents for Home Laundering**, 1971 **Chemistry of Soap, Detergents, and Cosmetics** Carol Eby, Tatum, 1989-10-01 Sodeopec Luis Spitz, 2004-05-30 This book contains updated material from some of the salient presentations at the Soaps Detergents and Oleochemicals 1997 and SODEOPEC 2002 conferences including several new chapters Like its two predecessors Soap

Technology for the 1990 s and Soaps and Detergents A Theoretical and Practical Review this publication will be a valuable resource for those who are active in the increasingly interrelated and quickly changing fields of soaps detergents oleochemicals and personal care products **Soaps and Detergents** Parasuram,1995-11-01 **Papers on Evaluation of Soaps and Detergents** J. Harris,1952-01-01 **Chemistry, Assignment 15** South Australian College of External Studies,1977 **Oils, Detergents, and Maintenance Specialties: Materials and processes** Benjamin Levitt,1967

CONTENTS 1 INTRODUCTION 2 ANIMAL FATS AND OILS 3 VEGETABLE FATS AND OILS 4 FATTY ACIDS FATTY ALCOHOLS GLYCEROL 5 SURFACTANTS AND SURFACE ACTIVITY 6 PRODUCTION OF FATS AND OILS 7 SOAP MANUFACTURE 8 SYNTHETIC DETERGENTS 9 ANALYSIS OF OILS AND DETERGENTS INDEX Preface Presented in this book are quantities of data gathered during many years in my practice of chemistry either as resident chemist in manufacturing plants or as a consultant to the soap and related industries The style is didactic and such that it may readily be understood by non technical personnel Involved theoretical and technical discussions have been avoided As far as possible references have been included at the end of each chapter Although much of the information contained in this work is well within my own experience much of it has been gleaned also from manufacturers technical bulletins or through private correspondence Many patents have been cited merely as examples of products discussed this is not to be construed as recommending the infringement of any such patents The various formulations are presented in good faith but no warranty is given nor is freedom from any patent to be inferred With a little ingenuity on the part of the reader many useful and efficient products may be made along the lines discussed without in any way infringing on patented products Because of numerous factors affecting results all the formulations cited herein although believed to be reliable most of them having emanated from the greatest laboratories in the world should be tested thoroughly It is especially recommended that manufacturers make their own tests to determine the suitability of the formulations for the specific applications intended I am indebted to the manufacturers of the many chemicals named in the book for information which I gathered either from direct correspondence or from their technical bulletins also for their many samples with which I compounded some of the formulas Special mention should be made of those companies that supplied photographs of equipment and installations depicting various processes I have tried to include all information pertinent to each formula and credit has been given to all identified suppliers so that additional information if needed may be obtained from the manufacturers of the basic materials used Finally I am grateful to the publishers for valuable assistance in the organization and presentation of my quantities of material which now comes out as not merely a second edition of my Oil Fat and Soap but as a much more comprehensive new book **Modern Technology of Soaps, Detergents and Toiletries** P. K. Chattopadhyay,2003-10-01 The book contains the formulae of different types of soaps detergents cake powder and liquid toiletries analytical testing method quality control of finished products packing criteria of cosmetics and toiletries alongwith project profiles and addresses of raw material plant and

machinery suppliers **The Manufacture of Soaps, Other Detergents, and Glycerine** Edgar Woollatt, 1985 *The Chemistry of Soap, Detergents, and Cosmetics* Denise Eby, Roger Tatum, 1977 Handbook of Detergents, Part A Guy Broze, 1999-04-14 Part A of this handbook describes the raw materials and potential interactions of detergent products before and after use focusing on the development and mechanisms of action of cleaning components The text presents the basic physiochemical concepts necessary to formulate new safer and more effective detergent products Soaps and Detergents Edgar George Thomssen, Clarence Ralph Kemp, J. W. McCutcheon, 1937 **Soaps and Detergents** Soap and Detergent Association, 1994 *Advances in Soap and Detergents : Proceedings* 18th Summer Program Symposium on Advances in Soap and Detergents (Pocono Manor Inn, Penn., 1967), 1972 **Perfumes, Soaps, Detergents & Cosmetics (In 2 Vols.) Vol. I: Soaps and Detergents** S. C. Bhatia, 2009-02-01 **Liquid Detergents** Kuo-Yann Lai, 2005-08-23 A bestseller in its first edition *Liquid Detergents* Second Edition captures the most significant advances since 1996 maintaining its reputation as a first stop reference in all fundamental theories practical applications and manufacturing aspects of liquid detergents Featuring new material and updates in every chapter the book expands its coverage of emulsions to include nanoemulsions adds new data to elucidate the rheology of current commercial detergent raw materials as compared to finished products and offers a more complete theoretical treatment of the aggregation in non aqueous solvents The book now covers all rheology modifiers and thickeners for detergent applications antibacterial and sensorial light duty liquid products color fabric care and wrinkle reduction in heavy duty liquid detergents and household cleaning wipes in specialty liquid household surface cleaners Rewriting the chapters on the latest improvements and growing benefits in fabric softeners liquid hand soaps and body washes and shampoos and conditioners the latter contains extensive summaries of patents for various new products and technologies The final chapter dedicated to the manufacturing of liquid detergents offers a discussion on continuous vs batch processes and micro contamination The most comprehensive guide of its kind *Liquid Detergents* Second Edition is a balanced and practical reference that will continue to inspire students researchers chemists and product developers in detergent industry surfactant science and industrial chemistry Soaps and Detergents Luis Spitz, 1996 This new book combines theoretical coverage with many practical easy to use isometric drawings flow sheets sample calculations definitions and reference tables *Soaps and Detergents A Theoretical and Practical Review* will benefit a wide range of professionals from newcomers in the field to those already practicing in the soap and detergent industry

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