

Handbook on Soaps, Detergents & Acid Slurry (3rd Revised Edition)

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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. 1. ACID SLURRY

Chemical Name of Acid Slurry

Difference Between Soft and Hard Slurry

Sulphonation of Dodecyl Benzene or Preparation of Acid Slurry

Plant & Machinerics Details for Manufacturing Acid Slurry

Raw Materials for Acid Slurry

Process of Manufacture

Manufacturing Steps of Acid Slurry
The Main Advantages Using Oleum
Precautionary Measures for Handling Sulphuric acid and Oleum
Raw Material Requirements
Market Potential

Alpha Olefins
Process of Manufacturing Alpha Olefins
Reactions

2. DETERGENT MANUFACTURING (Comm. Grade)

Other Additives
Procedural details of manufacturing 'Commercial' Detergent Powders

3. DETERGENTS OF VARIOUS TYPES

Detergent Powder

Metal Cleaners

Liquid Detergents

Detergent (Nirma Type)

Detergent Cake

4. PRINCIPAL GROUPS OF SYNTHETIC DETERGENTS

Classification

Anionic Detergents

Cationic Detergents

Non-ionic Detergents

Amphoterics and Zwitterionics

Biodegradability

5. INORGANIC COMPONENTS OF DETERGENTS

Builders and Other Additives

Phosphates

Silicates

Zeolites

Carbonates

Oxygen-releasing Compounds

Sundry Inorganic Builders

6. SYNTHESIS OF DETERGENTS

Raw Materials for Anionic Synthetic Detergents

Alkyl Benzene

Methyl Esters

Sulphonation of Detergent Raw Materials

Sulphonation with SO₃

Sulphonation Processes

Non-ionic Detergents

Cationic Detergents

Amphoteric Detergents

7. MANUFACTURE OF FINISHED DETERGENTS

Powders

Liquid Detergents

Paste Detergents

Solid Detergents

Fabric Softners

Abrasive Cleaners

8. APPLICATION AND FORMULATION OF DETERGENTS

Foam

Household Cleaning

Hard Surface Cleaners
Solvent Detergent
Carpet and Upholstery Cleaners
Textile Dressing
Food and Dairy Industries
Detergent Sanitizers
Metal Cleaners
Miscellaneous Cleaners

9. TECHNOLOGY OF MANUFACTURING SYNTHETIC DETERGENTS

Introduction
Performance Criteria
Formulation Requirements
Approach to Product Formulation
Production of Detergent Active
Sulphonation
Additives to Detergent Actives
Production of Detergent Powder by Dry Mixing
Machine-mixing
Production of Detergent Bars
Liquid Detergents

10. MANUFACTURE OF DETERGENT PRODUCTS

Health and Safety Factors
Production Procedure
Derivation of Linear Alkyl Benzene (LAB)
Derivation of Fatty Alcohols
Process Based on Natural Fats
Process based on Ethylene Source
Sulphonation of Lab with 98 percent Sulphuric Acid
Detergent Powder Prepared Without using Spray Dryer
(High Bulk Density)

11. LIQUID DETERGENTS

Requisites of Surfactants for Formulating Liquid Detergents
Surfactants Most Commonly Used
Builders
Viscosity Controllers
Other Ingredients
Household Liquid Detergents for Laundering
Typical Formulations
A Recommended Formulation

12. PACKAGING OF SOAPS AND DETERGENTS

Introduction
Packaging Material Specifications
Package Testing Methods
Other Tests
Packaged Commodities Rules

13. RAW MATERIALS (OILS AND FATS)

Classification of Fats/Oils
Some of the Most Useful, Fats and Oils
Purification of Soap Fats
Non Fatty Raw Materials for Soap
Other Additives (Foam Producers)

14. MANUFACTURING PROCESS AND

FORMULATIONS OF VARIOUS SOAPS

- (A) Washing Soaps
- (B) Nerol Washing Soap
- (C) Toilet Soaps
- (D) Carbolic Soaps
- (E) Shaving Soaps
- (F) Special Soaps
- (G) Vaseline Soap
- (H) Liquid Soap
- (I) Girt Soaps
- (J) Depilatory Soaps
- (K) Metallic Soaps in Protective Coating Industry
- (L) Liquid Dental Soap
- (M) Medicated Soap

15. TECHNOLOGY OF SOAP MANUFACTURING

Manufacturing Soap

Glycerine Recovery

Production of Laundry and Toilet Soaps

Production of Filled Soaps on the Mazzoni

Technology of Toilet Soaps

Process Control

Other Soaps

16. TECHNOLOGY OF SOAP MANUFACTURING

Health and Safety Factors

Classification of Soap Products

Methods of Manufacture

Various Finishing Methods

Production

Washing bar/cake soap from neat soap

Semi-boiling process and cold-made process

Production of washing bar/cake soap by semi-boiling/
cold -made process

Toilet soap

Medicated Soaps

Castile Soap by Boiling Process

Various Industrial Soaps

Laundry Washing Aids

More Laundry Wash Mixtures

Shaving Soaps

Shaving Cream

Liquid Soaps/Shampoos

Shampoos

Soap Shampoos

Shampoos Based on Synthetic Surfactants

General formulations

17. SOAP MAKING BY CONTINUOUS PROCESS

(Quicker Methods)

Method of Continuous Saponification of Fats by Alkali Solution.

Continuous Neutralization Process

Continuous neutralization Process Using Fatty Acids Instead of Fats

Batch Methods of Splitting Fats in to fatty Acids and Glycerol

Purification of Fatty Acids

18. CLEANSING MECHANISM

Characteristics of Soap

Saponification of Fats - The Basic Chemical Reaction Making Soap

19. DIRECTORY SECTION

List of Suppliers of Raw Material (Indigenous)

List of Plant and Machinery suppliers (Indigenous)

List of Suppliers of Raw Material (Overseas)

List of Plant and Machinery suppliers (Overseas)

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