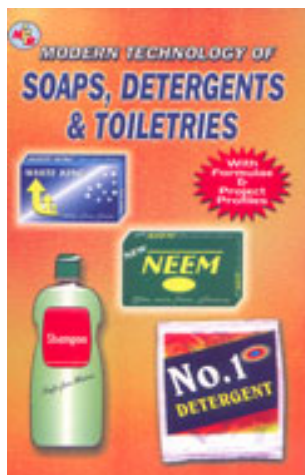


Modern Technology Of Soaps, Detergents And Toiletries (with Formulae and Project Profiles) 2nd Edition



Author: P. K. Chattopadhyay

Format: Paperback

ISBN: 8186623450

Code: NI34

Pages: 426

Price: Rs. 575.00 **US\$** 100.00

Publisher: National Institute of Industrial Research

Usually ships within **3** days

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.

Contents

1. Total Quality Management : Its Relevance in Oils, Soaps, Detergents Industries

Introduction
Magnitude of OSD
Oil Industry
Soap Industry
Detergent Industry
General
Solvent Extraction Industry
Exports by Major Soap Industries in India
Quality Control Systems
Standardisation
Statistical Quality Control (S.Q.C.)
Productivity Applications
Oil-Soap-Detergent Industries (OSD)

2. Packaging Criteria for Cosmetics and Toiletries

Evolution of Packaging

Functional Requirements of Packaging

Technical

Aesthetic

Cost

Chemical Compatibility

Physical Compatibility

Retention of Volatiles

Leak proof caps

Tamper-proof Seal

Transport Hazards

Aesthetic Factors

Presentability/Appearance

Packaging Design

Package Design - Practicability

Cost-effectiveness of Pack

Packaging Materials

Glass

Metal

Plastics

Paper

Product Evaluation

Transit Trials

Products Characteristics and Packaging Materials

Legal Requirements

Closing

Specification for Polycoated Paper

Specification of Gum Tape

Specification of Corrugated Fibreboard Boxes

3. Principal Groups of Synthetic Detergents

Classification

Anionic Detergents

Alkyl Aryl Sulphonates

Long-Chain (Fatty) Alcohol Sulphates

Sulphonated Olefins

Sulphated Monoglycerides

Sulphated Ethers

Sulphosuccinates

Sulphonated Methyl Esters

Alkane Sulphates

Phosphate Esters

Alkyl Isethionates

Acyl Sarcosides

Alkyl Taurides

Fluorosurfactants

Cationic Detergents

Non-ionic Detergents

Fatty Acid Condensates

Condensation of Ethylene Oxide with an Amine

Condensation of Ethylene Oxide with an Amide

Block Polymers

Sucrose Esters

Sorbitan Esters

Alkylolamides
Fatty Amine Oxides
Amphoetrics and Zwitterionics
Biodegradability

4. Application and Formulae of Detergents

Foam
Household Cleaning
Heavy-Duty Laundering
Foam Control
General-Purpose Detergents
Choice of Non-Ionic
Concentrated Powders
Cold Water Washing
Hard-Surface Cleaners
Machine Dishwashing
Abrasive-Type Cleaners
Miscellaneous Household Cleaners
Commercial Laundering
Solvent Detergents
Carpet and Upholstery Cleaners
Textile Dressing
Mercerizing
Food and Dairy Industries
Detergent Sanitizers
Metal Cleaners
Miscellaneous Cleaners
Lavatory Cleaner
Hand Cleaners
Waterless Hand Cleansers

5. General Discussion of Detergents

Industrial-Detergents - Applications
Cosmetic Industry on Path of Progress

6. Detergent Bar

Formulation
Sequence of Additions
Note
Specification
Type of Defects
What are the main defects in bar detergent?
Detergent Bar Cost Calculations

7. Liquid Soap and Detergents

Product Introduction
Method of Manufacture
Liquid Detergents
Weight Equivalents of DDBSA
Molecular Weights
Special Procedures for Compounding

8. Washing Soap: Laundry Soap Formulation

Manufacture of Laundry Neat soap from Oil Blend
Harding of RBD
Acid wash for RBHT
Salt Wash for Neem Oil
Blending
Neem Soap Manufacture
Manufacture of Laundry Soap
Theory
Process and Raw Material
Product Profile
Washing Soaps
Brand Name

9. Deodorant
Zinc Ricinoleate
Deodorant pump Spray
Name of the Manufacturers
Zinc Ricinoleate
Market Size of Deodorant
Growth Barrier

10. Tooth Paste
Introduction
Consumers and Predicted Demand
Production Target and Quality Control
Requirement of Land and Building
Availability of Raw Materials
Machinery and Equipment
Office Equipment
Man Power Required
Raw Materials Per Month

11. After Shave Lotion
Introduction
Uses of After shave Lotion
Market Position
Advertising
Distribution
Formulations with Process
Process
Note
Process
Plant Economics
Land and Building
Plant and Machinery
Raw Material (Annual)
Utilities and Overheads (Annual)
Personnel Requirement (Annual)

12. Hair Shampoo
Introduction
Properties
Uses and Application

Raw Materials for Shampoos
The Nonionic Detergent Raw Materials
Amphoteric Products
Perfumes
Preservatives
New Shampoo Development
Protein and Egg Shampoo
Herbal Shampoo
Vitamin Shampoos
Antidandruff Shampoos
Market Survey
Present Manufacturers
Formulae
Coconut oil Shampoo
Triethanolamine Shampoo
Liquid Cream Shampoos
Liquid Cream Shampoo
Procedure
Manufacturing Process

13. Antiseptic and Germicidal Liquid Soap
Hexachlorophene Soaps
Control of Clarity
Filtration
Bottling and Packaging

14. Fundamentals of Science
Weight
Measurements
Volume
Units
Measurement
Examples
Density and Specific Gravity
Temperature
Diversions
Pressure and Vacuum
Surface Tension
Viscosity
Flow
Acid, Bases and Neutral Solution
Normal Solutions and Normality
Unloading of Oleum tanker
Process Familiarisation
Raw Materials Characteristics and Storage
Hydrocarbon
Caustic Soda
Other Process Chemicals and Ingredients
Bleach liquor

15. Raw Material Specification
Oils/Fatty Material
Chemicals

16. Testing of Finished Goods

Report for the Central Laboratory (Test of Oil)

Determination of Moisture

Determination F. F. A.

Determination of Iodine value

Colour

Specification Value

Unsap Value

Mineral Oil

Caster oil test

Bleaching of oil

Wesson loss

Test for HCN

17. Finished Product Quality Control Procedures

Oven Volatilise

Scope

Apparatus

Procedure

Calculation

Determination of Total Fatty Matter

Procedure

Alcohol Insoluble matter

Detergent Powder

NSD Manufacture in Brief

Powder

Sulphonation

Neutralisation and Bleaching

Slurry Preparation

Blowing of Slurry

Filling and Packing

NSD-Bar

Mixer

Noodler and Mill

Plodder

Billeting

Weathering

18. Analytical Testing Methods

Aluminium Sulphate

Determination of pH

Determination of Iron

Determination of Aluminium

Purity of Calcite

Moisture Content - Calcite

Matter Soluble in Water

Determination of Alumina

Iron As Fe₂O₃ (Total and Free)

Loss on Drying

Determination of Silica

China Clay - Paste with Glycerine

Loss on Ignition
Matter Soluble in Water
Matter Soluble in Acid
Water Absorption Value
Determination of Calcium and Magnesium In Dolomite
Moisture Content
Matter Insoluble in Acid
Bulk Density of Dolomite
Determination of Available Lime (as Cao)
Solubility of Liquid Paraffin
Reaction of Liquid Paraffin
Readily Carbonisable Substances in Liquid Paraffin
Sulphur Compounds in Liquid Paraffin
Reaction to Acid and Alkali
Solubility in Water
Colour Value
Determination of Matter Insoluble in Water
Volatile Matter Content
Total Alkalinity as Na₂CO₃
Determination of Chlorides
Determination of Sulphates
Iron Content
Determination of Iron (as Fe)
Total Soluble Silicates and Na₂O : SiO₂ Ratio
Moisture
Temperature Rise Test
Phosphorus Content
Determination of Tripolyphosphate Content (Na₅P₃O₁₀)
Active Detergent Content of Detergent Paste
Total Anionic Detergent: Hyamine titration
Moisture and Volatile Matter of Detergent paste
Colour of Detergent Paste
Available Chlorine
Non-Detergent Organic Matter

19. Natural Essential Oils in India : A Perspective

Introduction
Essential Oils in India and Trade
Summary and Conclusion

Plant Economics

Directory Section

Development Council for Soaps, Detergents, Cosmetics and Toiletries Industries Reconstituted

About NIIR

NIIR Project Consultancy Services (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. Its various services are: Pre-feasibility study, New Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project

Opportunities, Preparation of Project Profiles and Pre-Investment and Pre-Feasibility Studies, Market Surveys and Studies, Preparation of Techno-Economic Feasibility Reports, Identification and Selection of Plant and Machinery, Manufacturing Process and or Equipment required, General Guidance, Technical and Commercial Counseling for setting up new industrial projects and industry.

NPCS also publishes various technology books, directory, databases, detailed project reports, market survey reports on various industries and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by Indian and overseas professionals including project engineers, information services bureau, consultants and consultancy firms as one of the input in their research.

National Institute of Industrial Research , 106-E, Kamla Nagar, New Delhi-110007, India. **Email:** niir@vsnl.com **Website:** NIIR.org

Sun, 07 Sep 2008 01:09:57 -0400