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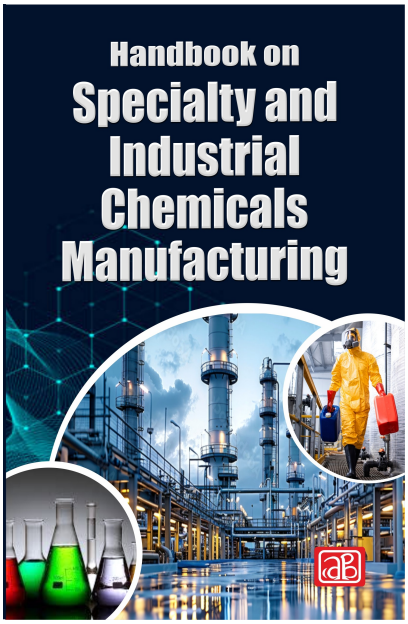

Handbook on Specialty and Industrial Chemicals Manufacturing

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Description

Specialty and industrial chemicals are essential to modern manufacturing, providing raw materials, intermediates, processing aids, and functional products for diverse industries. Their applications extend across agriculture, food, pharmaceuticals, textiles, construction, water treatment, electronics, polymers, fertilizers, and other process industries. Effective chemical manufacturing requires knowledge of reactions, raw materials, processing conditions, product quality, equipment, safety, environmental practices, and regulatory requirements. This handbook brings these aspects together in a practical reference.

The global and Indian chemical manufacturing sector supports diverse production and processing activities, with demand arising from established and emerging applications. India has a broad chemical ecosystem offering opportunities for domestic supply, import substitution, value addition, and exports. Specialty and industrial chemicals serve markets through acids, alkalis, phosphate compounds, metal salts, industrial gases, polymers, resins, oxidizing chemicals, adsorbents, and fertilizer chemicals. The need for efficient processing, quality products, responsible manufacturing, and wider applications creates scope for producers, MSMEs, startups, and entrepreneurs.

This handbook provides broad coverage of chemical production and related industrial practices. It begins with chemical classification, starting a chemical manufacturing industry, government policies, legal requirements, and safety documentation, followed by inorganic and organic acids, alkali and caustic chemicals, phosphate compounds, metal salts, industrial gases, polymers, and specialty chemicals. It also covers activated carbon, precipitated calcium carbonate, fertilizer chemicals, urea production routes, BIS specifications, plant layouts, process flow diagrams, and plant and machinery information. Manufacturing processes, raw materials, formulations, product types, applications, market considerations, and export prospects are discussed throughout.

A key strength of the handbook is its systematic, manufacturing-oriented approach. Rather than limiting discussion to chemical properties, it connects product knowledge with production methods, process stages, equipment requirements, quality considerations, applications, and business factors. This breadth makes it useful for understanding individual products and the wider structure of chemical manufacturing. It serves as a technical reference, academic resource, and practical guide for evaluating manufacturing opportunities.

The handbook is recommended for students, researchers, chemical engineers, industry professionals, producers, manufacturers, startups, entrepreneurs, MSMEs, project planners, exporters, and practitioners seeking a clear understanding of specialty and industrial chemical manufacturing. By bringing technical, operational, regulatory, and application-oriented information into one resource, it provides a reliable foundation for study, planning, and informed decision-making.

Content

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, directories, 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 bureaus, consultants and consultancy firms as one of the inputs in their research.