

Ashland Technical Data Sheet

Hydroxyoximes and Copper Hydrometallurgy provides a current examination of what is known regarding hydroxyoxime extractants, the chemistry and physicochemistry of extraction, and the potential of applying hydroxyoximes for extraction of copper and other metals in industrial processes. Topics addressed include the development of the hydrometallurgical process, methods of synthesis and structural characteristics, extraction properties, losses of active substances and problems associated with environmental pollution, the potential of metal extraction and separation with hydroxyoximes, methods of extraction and stripping that can improve metal separation and recovery, the applications of hydroxyoximes in various membrane processes, and industrial processes and equipment used for processing oxide ores and tailing. The book will benefit metallurgists, hydrometallurgists, analytical and physical chemists, and researchers in mining industries and solvent extraction.

Handbook of Maleic Anhydride Based Materials Syntheses, Properties and Applications Springer

A ubiquitous, largely overlooked groundwater contaminant, 1,4-dioxane escaped notice by almost everyone until the late 1990s. While some dismissed 1,4-dioxane because it was not regulated, others were concerned and required testing and remediation at sites they oversaw. Drawing years of 1,4-dioxane research into a convenient resource, Environmental Investigation and Remediation: 1,4-Dioxane and other Solvent Stabilizers profiles the nature of 1,4-dioxane and several dozen other solvent stabilizer compounds. The author takes an approach he calls "contaminant archeology", i.e., reviewing the history of the contaminating chemical's use in the industrial workplace at the site of release and how those uses impart chemical characteristics to the waste that affects its fate and transport properties. The book examines the uses, environmental fate, laboratory analysis, toxicology, risk assessment, and treatment of 1,4-dioxane in extensive detail. It provides case studies that document the contaminant migration, regulation, treatment, and legal aspects of 1,4-dioxane releases. It also describes the controversy over interpretation of 1,4-dioxane's toxicology and associated risk, as well as the corresponding disparity in states' regulation of 1,4-dioxane. A final chapter examines the policy implications of emerging contaminants like 1,4-dioxane, with discussion of opportunities to improve the regulatory and remedial response to this persistent contaminant in the face of toxicological uncertainty. Mobility, persistence, and treatment challenges combine to make 1,4-dioxane a particularly vexing contaminant. It is more mobile than any other contaminant you are likely to find at solvent release sites. Filled with case studies, equations, tables, figures, and citations, the book supplies a wide range of information on 1,4-dioxane. It then provides passive and active remediation strategies and treatment technologies for 1,4-dioxane in groundwater and provides you with the technical resources to help you decide which are appropriate for your site. For more information about Thomase Mohr and his book, go to <http://www.The14DioxaneBook.com>

Offers information on the fundamental principles, processes, methods and procedures related to fibre-reinforced composites. The book presents a comparative view, and provides design properties of polymeric, metal, ceramic and cement matrix composites. It also gives current test methods, joining techniques and design methodologies.

A worldwide directory of commercially available adhesive products for use in a wide range of engineering disciplines. Along with product names and suppliers, basic property data are tabulated and cross-referenced. The book is subdivided according to class of adhesive, with introductions to each class followed by comparison tables and datasheets for each adhesive. The datasheets contain detailed information, from product codes to environmental properties and are therefore of interest across a broad readership. Standardized data will aid the user in cross-comparison between different manufacturers and in easily identifying the required information.

Conservation of Easel Paintings is the first comprehensive text on the history, philosophy, and methods of treatment of easel paintings that combines both theory with practice. With contributions from an international group of experts and interviews with important artists, this volume provides an all-encompassing guide to necessary background knowledge in technical art history, artists' materials, scientific methods of examination and documentation, with sections that present varying approaches and methods for treatment, including consolidation, lining, cleaning, retouching, and varnishing. The book concludes with a section featuring issues of preventive conservation, storage, shipping, exhibition, lighting, safety issues, and public outreach. Conservation of Easel Paintings is a crucial resource in the training of conservation students and will provide generations of practicing paintings conservators and interested art historians, curators, directors, collectors, dealers, artists, and students of art and art history with invaluable information and guidance.

A hands-on guide to choosing and using old and new technologies for joining plastics and elastomers. Includes detailed discussions of over 25 techniques used to join plastics to themselves and to other materials. Advantages and disadvantages of each technique along with detailed discussions of applications are presented. A second section is organized by material and provides details of using different processes with over 50 generic families of plastics and how different techniques and operating parameters affect weld strength and other criteria. This book is an excellent reference and an invaluable resource for novice and expert alike in determining the best joining technique for their application and providing guidance in how to design and prepare for production.

Adhesives are indispensable. They are required pling agents, and other key ingredients. Special in myriad products-aircraft and abrasives, cars attention is given to such flourishing categories and cartons, shoes and safety glass, tape and as acrylics, anaerobics, cyanoacrylates, poly urethanes, epoxy resins, polyvinyl acetate, high tires. This Third Edition of Handbook of Ad hesives, like the 1962 and 1977 editions, seeks temperature adhesives, hot melts, silicones, and to provide the knowledge needed for optimum silanes. selection, preparation, and utilization of adhe The last 14 chapters, on adherends and bond sives and sealants. The information is detailed ing technology, involve the auto industry, air and explicit, with several hundred illustrative craft, electronics, the bonding of wood, formulations. textiles, rubber and plastics, construction, ab Expert information has been supplied in 47 rasives, pressure-sensitives, nonwovens, and chapters written by 70 industry specialists, pro sealants. Mechanical handling of two-compo fessors, and consultants. Five chapters on fun nent systems is examined. The concluding damentals provide the theoretical and economic chapter highlights the exciting progress that is underpinnings-why adhesives work, how they being made in the use of robotics to apply ad are selected, how the surface is prepared, how hesives, techniques already far advanced in au they are applied, how they are set, how the totomotive assembly. cured joint is tested.

Information is provided on physical and chemical properties, commerce and production, material handling, transport, environmental effects, human health effects, chemical compatibility, spill countermeasures, previous spill experience, and analytical methods.

Please note this is a Short Discount publication. Thermoset resins continue to remain the principal matrix of reinforced plastic composite components. Now you can refer to information on thermoset resins available around the world – in a single Data Book. The Data Book comes with a clear, standardised layout to compare between competitive resins. Each resin is listed alphabetically, first by country of manufacture, then by manufacturer. The use and application of each resin is clearly outlined. Contact details are readily and immediately available, making it easy to follow up information. Trade names, sales offices, local agents and main distributors are also provided. The Data Book also provides an understanding of the respective chemistry, properties, structure, curing mechanism and manufacture of each resin, under its appropriate classification – with sub-divisions by chemical type – acrylic, bismaleimides, bisphenols, epoxides, furans, phenolics, polyimides, polyesters or vinyl ester. With its carefully compiled address, telephone and facsimile number directory, the Data Book is an up-to-date source of readily available and complete information. Data Book of Thermoset Resins for Composites is required reading for all those concerned in any way with the manufacture, marketing, use and specification of thermoset resin based composites.

This volume recognizes the growing role of solvent extraction and electrowinning technology in the world copper business. This well-established, remarkable hydrometallurgical achievement fills an important role in our technical ability to extract copper in an efficient and cost-effective way. This proceedings documents the present status of the SX-EW business. It represents a substantial body of historical, scientific, engineering, and commercial information regarding the growth and application of the technology. Sections include: The Business and Technology of SX-EW, Theory and Practice of Copper Leaching, Theory and Practice of Tankhouse Operations, and Theory and Practice of Solvent Extraction.

Wood adhesives are of tremendous industrial importance, as more than two-thirds of wood products in the world today are completely or partially bonded together using a variety of adhesives. Adhesive bonding offers many advantages over other joining methods for wood components, and there has been a great deal of R&D activity in devising new wood adhesives or improving the existing ones. The modern mantra in all industrial sectors is: "think green, go green," which has attracted much attention in the wood adhesive industry. Therefore, there is also a lot of research activity in synthesizing environmentally benign and human-friendly wood adhesives. This book is divided into four parts: Part 1: Fundamental Adhesion Aspects in Wood Bonding; Part 2: Synthetic Adhesives; Part 3: Environment-friendly adhesives; and Part 4: Wood Welding and General Paper. It addresses many different types of wood adhesives, as well as bonding (welding) of wood components without adhesives, a more recent development. The information contained in this book is valuable for individuals engaged in all aspects of wood adhesion and adhesives and, hopefully, will inspire new ideas in wood adhesives, a topic of vital industrial importance.

Focuses on the theories of liability that private plaintiffs may rely upon to recover for environmental or toxic harms. Presents special procedural problems of causation posed by Environmental and Toxic Torts. Addresses special harms that often relate to seeking recovery for future, but as yet unrealized, consequences of their exposure to toxic substances. Regards the role of state and federal statutes and regulations in private tort actions, including discussion of express and implied preemption and the Supreme Court decisions. Discusses proposals for reform of the tort system.

A handbook on syntheses and properties, production processes, and applications of maleic anhydride and maleic anhydride derived products – all in one text. This handbook provides a comprehensive overview of maleic anhydride chemistry and applications from the professional perspective. With chapters written by leading R&D scientists from the chemical industry, and edited by the Vice President and ASI Technology Chief at Ashland Specialty Ingredients (ASI), Dr. Osama M. Musa, readers will find a unique perspective and summary of the latest advancements in the field of maleic anhydride science. Maleic anhydride is produced industrially on large scale (10E3 kt/annum). Its rich chemistry makes it an important raw material for numerous products and processes (e.g. for applications in polymers and coatings), many of which are covered in this handbook for the first time in a comprehensive manner. The broad scope spans topics ranging from production techniques (including topics such as processes, catalysis, trouble-shooting), synthesis and properties of small and polymeric maleic anhydride based compounds (focusing on industrially relevant compounds as well as emerging areas of importance) and in-depth and broad discussions of commercial maleic anhydride based applications.

This publication evaluates or re-evaluates the carcinogenic risks to humans posed by exposure to 16 organic industrial chemicals. These included some aromatic amines, some thanolamies, and three esters. Seven of the 16 compounds were evaluated previously.

The title is misleading until you check out the contents. It is all about HVAC and more. This compilation has organized data frequently used by Mechanical Engineers, Mechanical Contractors and Plant Facility Engineers. The book will end the frustration on a busy day searching for design criteria.

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